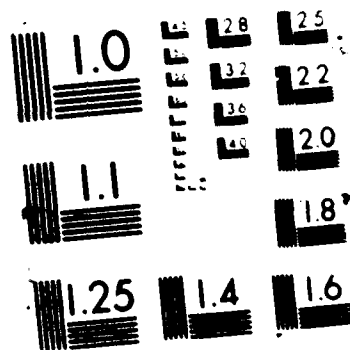


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## SECURITY CLASSIFICATION

AD-A185 808

PAGE

Form Approved  
OMB No 0704-0188  
Exp Date Jun 30, 19861a REPORT SECURITY CLASSIFICATION  
UNCLASSIFIED

RESTRICTIVE MARKINGS

NONE

2a SECURITY CLASSIFICATION  
N/A

3 DISTRIBUTION/AVAILABILITY OF REPORT

UNLIMITED

2b DECLASSIFICATION/DOWNGRADING SCHEDULE  
N/A

4 PERFORMING ORGANIZATION REPORT NUMBER(S)

SAIC-87/1780

5 MONITORING ORGANIZATION REPORT NUMBER(S)

TO BE ASSIGNED

6a NAME OF PERFORMING ORGANIZATION

Science Applications Int'l Corp

6b OFFICE SYMBOL  
(if applicable)

N/A

7a NAME OF MONITORING ORGANIZATION

US Army Belvoir Research, Development  
and Engineering Center

6c ADDRESS (City, State, and ZIP Code)

1710 Goodridge Drive, T-7-2  
McLean, Virginia 22102

7b ADDRESS (City, State, and ZIP Code)

Commander  
Fort Belvoir, Virginia 22060-56068a NAME OF FUNDING/SPONSORING  
ORGANIZATIONUS Army Belvoir Research, Dev.  
and Engineering Center8b OFFICE SYMBOL  
(if applicable)

STRBE-HP

9 PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER

DAAK70-84-D-0053

8c ADDRESS (City, State, and ZIP Code)

Fort Belvoir, Virginia 22060-5606

10 SOURCE OF FUNDING NUMBERS

PROGRAM  
ELEMENT NOPROJECT  
NOTASK  
NO  
0033WORK UNIT  
ACCESSION NO

11 TITLE (Include Security Classification)

APPENDIX A, Part I

Development of Milestone Schedules for Selected Logistics Support Directorate Programs. (U)

12 PERSONAL AUTHOR(S)

Bruce B. Halstead, Arthur A. Narro, Thomas J. Fidd, Kurt A. Kladvko, Jerri Y. Gist

13a TYPE OF REPORT

Technical Report

13b TIME COVERED

FROM 12/86 TO 9/87

14 DATE OF REPORT (Year, Month, Day)

1987 September 15

15 PAGE COUNT

53

16 SUPPLEMENTARY NOTATION

17 COSATI CODES

FIELD

GROUP

SUB-GROUP

18 SUBJECT TERMS (Continue on reverse if necessary and identify by block number)

Acquisition Milestone Schedules, Acquisition Management,  
Data Base Development

19 ABSTRACT (Continue on reverse if necessary and identify by block number)

The Logistics Support Directorate is responsible for numerous developmental programs requiring comprehensive milestone schedules to guide programs through the Army's extensive materiel acquisition cycle. Schedules are developed using micro-computers to assist Project Engineers with the management of key activities. The objective of this effort was to develop milestone schedules for selected developmental programs. Examples were generated for use by Project Engineers when they develop future milestone schedules. The document also includes examples of a data request form to extract data from Project Engineers and a user's manual for data base management.

*Acquisition Management, Data Base Development*

20 DISTRIBUTION/AVAILABILITY OF ABSTRACT

☐ UNCLASSIFIED/UNLIMITED ☒ SAME AS RPT ☐ DTIC USERS

21 ABSTRACT SECURITY CLASSIFICATION

UNCLASSIFIED

22a NAME OF RESPONSIBLE INDIVIDUAL

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22b TELEPHONE (Include Area Code)

703-664-5092

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STRBE-FP

AD-A185 808

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DEVELOPMENT OF MILESTONE SCHEDULES  
FOR  
SELECTED LOGISTICS SUPPORT DIRECTORATE PROGRAMS

APPENDIX A, PART I  
HTPM TEMPLATES



Science Applications International Corporation

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DEVELOPMENT OF MILESTONE SCHEDULES  
FOR  
SELECTED LOGISTICS SUPPORT DIRECTORATE PROGRAMS

APPENDIX A, PART I  
HTPM TEMPLATES

15 SEPTEMBER 1987

BRUCE B. HALSTEAD  
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JERRI Y. GIST

**DTIC**  
**ELECTE**  
**S** OCT 07 1987 **D**  
**D**

Prepared for:  
US Army  
Belvoir Research, Development and Engineering Center

Under  
Contract Number DAAK70-84-D-0053  
Task Order 0033

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# APPENDIX A HTPM TEMPLATES

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Availability Codes	
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<i>A-1</i>	

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#### PRODUCT IMPROVEMENT PROGRAM

(TASK SUMMARIES FOR ASAP PROCESS ALSO PERTAIN TO THE PIP PROCESS)

## HARVARD TOTAL MANAGER PROGRAM TEMPLATES

### ORGANIZATION OF DATA

1. This Appendix contains four versions of HTPM templates designed to be fit to on-going and future Logistics Support Directorate acquisition programs to enhance management efforts.

a. Two versions were provided by the Study Sponsor as a result of previous work. The first two versions contained in this Appendix are those versions, updated to accommodate the latest changes in Army acquisition procedures contained in pertinent regulations and directives. They are:

- Research and Development (R&D)
- Nondevelopment Item (NDI)

b. Two additional versions, developed during the conduct of this analysis, are also included.

- Army Streamlined Acquisition Process (ASAP)
- Product Improvement Program (PIP)

c. Each version is subdivided into phases:

- R&D
  - Concept Exploration (CE)
  - Demonstration and Validation (DV)
  - Full Scale Development (FS)
  - Production and Deployment (PD)
- NDI
  - NDI1 (similar to CE above)
  - NDI2 (similar to DV and FS above)
  - NDI3 (similar to PD above)
- ASAP
  - ASAP1 (Technology Base Activities)
  - ASAP2 (Proof of Principle)
  - ASAP3 (Development/Production Prove Out)
  - ASAP4 (Production and Deployment)
- PIP
  - PIP1 (Phases are similar to ASAP Phases above)
  - PIP2
  - PIP3
  - PIP4

d. This Appendix contains a roadmap for each main program associated with a phase and roadmaps for each subprogram associated with each main program. A roadmap consists of milestones, tasks and subprograms.



- Milestones are depicted by boxes. Milestones with names beginning with "D" (D8040) are "Dummy" milestones required when two or more tasks lead into one task or when one task branches into two or more tasks.

- The critical path is denoted by double lines.

- Tasks are named on the activity line. Tasks with names beginning with "CONT" (CONT. 02) or "D" followed by a number (D0160) are dummy tasks required when there are two or more milestones in sequence.

- Subprograms appear similar to tasks. They can be differentiated from tasks because their names begin with an asterisk, "\*". For example, "\*CEAP" would be a subprogram of the CE main program. However, if the subprogram name is eight characters long, the first two characters will be replaced by the "\*". For example, "N1LSARAM", a subprogram of ND11 would be represented in the ND11 main program as "\*LSARAM".

2. The templates (or roadmaps) are followed by an alphabetically sorted task and milestone list, summarizing the tasks contained in the templates. Summaries include the task or milestone name, the schedule to which it belongs, AMMS or BELVOIR code numbers as appropriate, responsibilities for task accomplishment, event duration times, and task descriptions.

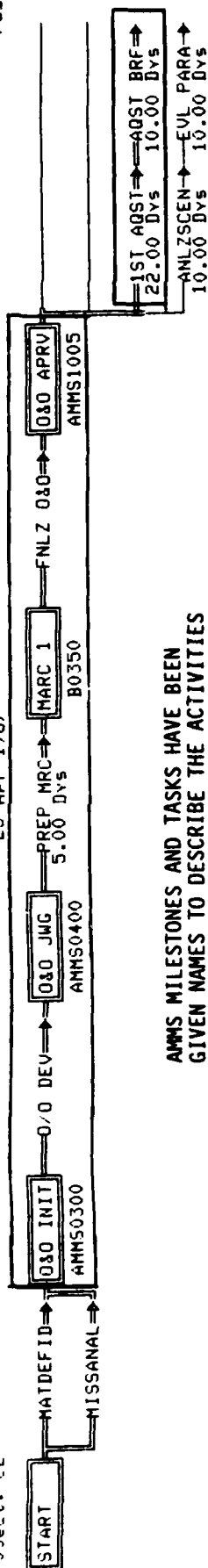
CONCEPT EXPLORATION PHASE  
RESEARCH AND DEVELOPMENT TEMPLATE

Project: CE

23-Apr-1987

Page 1

# CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL



AMMS MILESTONES AND TASKS HAVE BEEN GIVEN NAMES TO DESCRIBE THE ACTIVITIES BEING UNDERTAKEN DURING THIS PERIOD.

THE ACQUISITION STRATEGY IS THE HEART OF PROGRAM PLANNING AND SETS THE BASIC COURSE OF ACTION TO BE FOLLOWED. (AR 70-1)

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

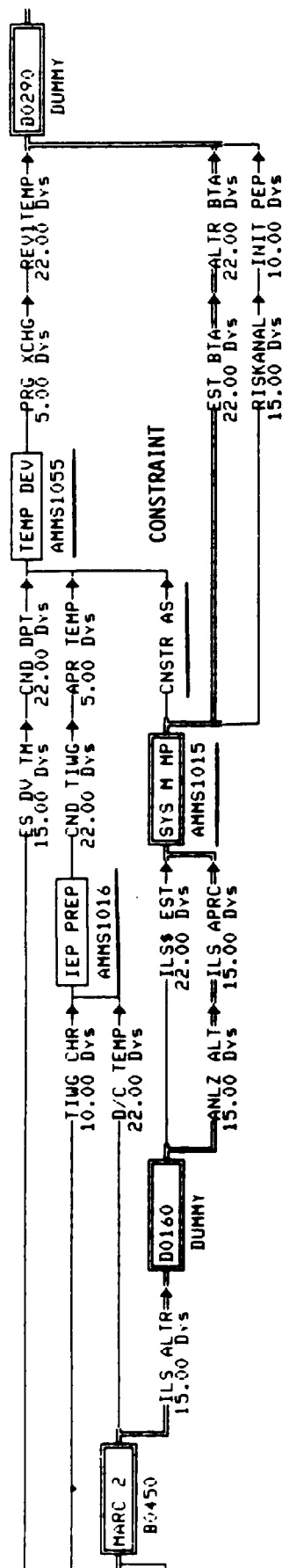
TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

# CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

Project: CE

23-Apr-1987

Page 2

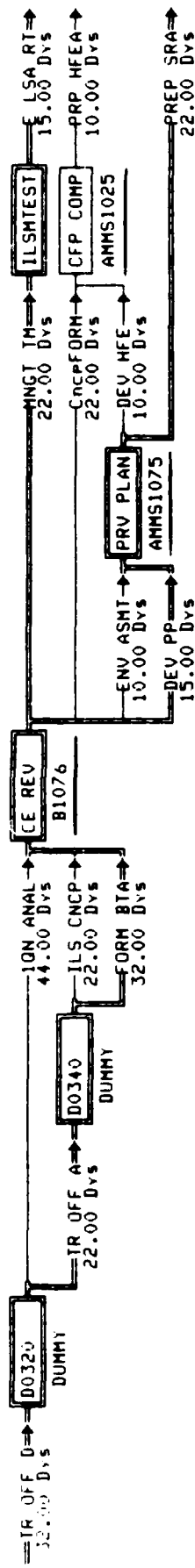


# CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

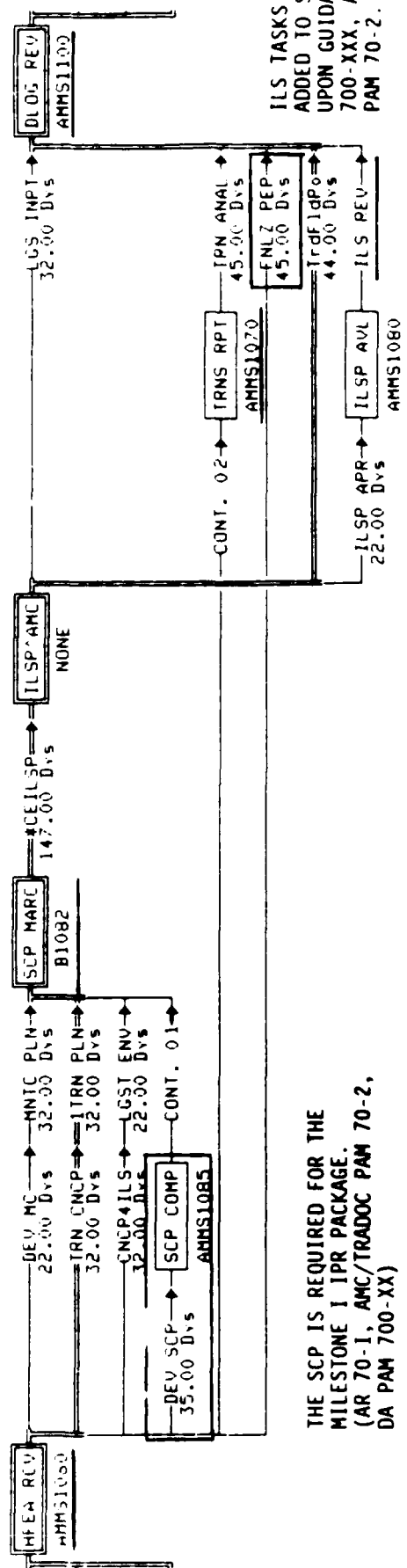
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Page 3

Project: CE



THE TASK ADDED IS PERTINENT  
TO THE ACCOMPLISHMENT OF THE  
AMMS MILESTONE.

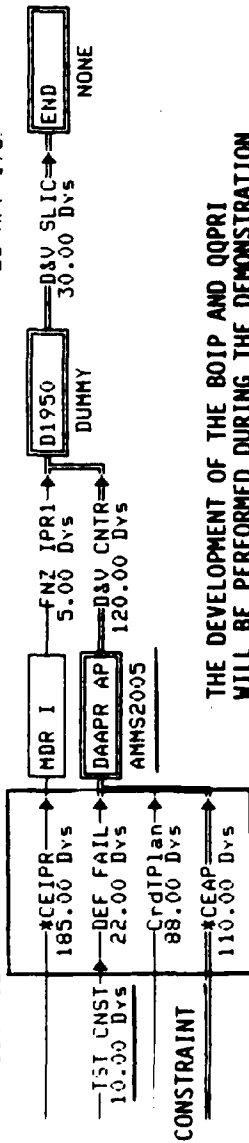


THE SCP IS REQUIRED FOR THE  
MILESTONE I IPR PACKAGE.  
(AR 70-1, AMC/TRADOC PAM 70-2,  
DA PAM 700-XX)

TASK AND MILESTONES ADDED  
TO SCHEDULE TO ACCOMPLISH  
PROGRAM MANAGEMENT PLANNING.  
(AR 70-1, AR 71-9, AMC/TRADOC  
PAM 70-2, AND DA PAM 700-XXX)

THE LOA HAS BEEN SUSPENDED. THE ROC IS THE FORMAL REQUIREMENT DOCUMENT. THE ROC IS NOT NORMALLY APPROVED UNTIL PROOF OF PRINCIPLE HAS BEEN CONDUCTED UNDER AN APPROVED O & O PLAN. (AR 71-9, AMC/TRADOC PAM 70-2)

Project: CE



THE DEVELOPMENT OF THE BOIP AND QOPRI  
WILL BE PERFORMED DURING THE DEMONSTRATION  
AND VALIDATION PHASE CONCURRENT WITH THE  
ROC APPROVAL PROCESS. (AR 71-9, AR 71-2,  
AMC/TRADOC PAM 70-2, AND DA PAM 700-XXX)

# CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

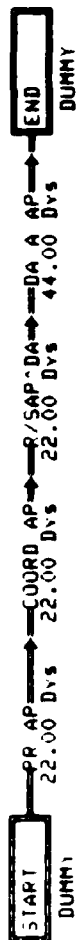
23-Apr-1987

# CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

Project: CEAP

23-Apr-1987

Page 1



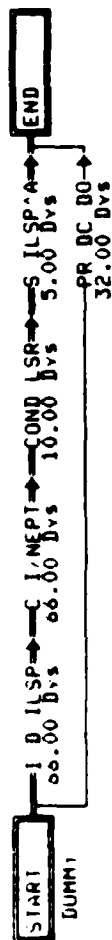


# CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

PROJECT: CELLSP

23-Apr-1987

Page 1



# CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

Project: CEIPR

23-Apr-1987

Page 1



CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

23-Apr-1987

Project: CEIPR

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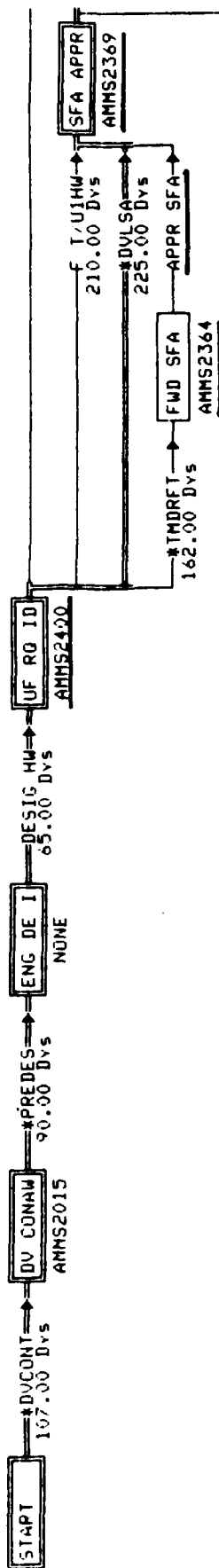
DEMONSTRATION AND VALIDATION PHASE  
RESEARCH AND DEVELOPMENT TEMPLATE

Project: DV

# DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

Page 1

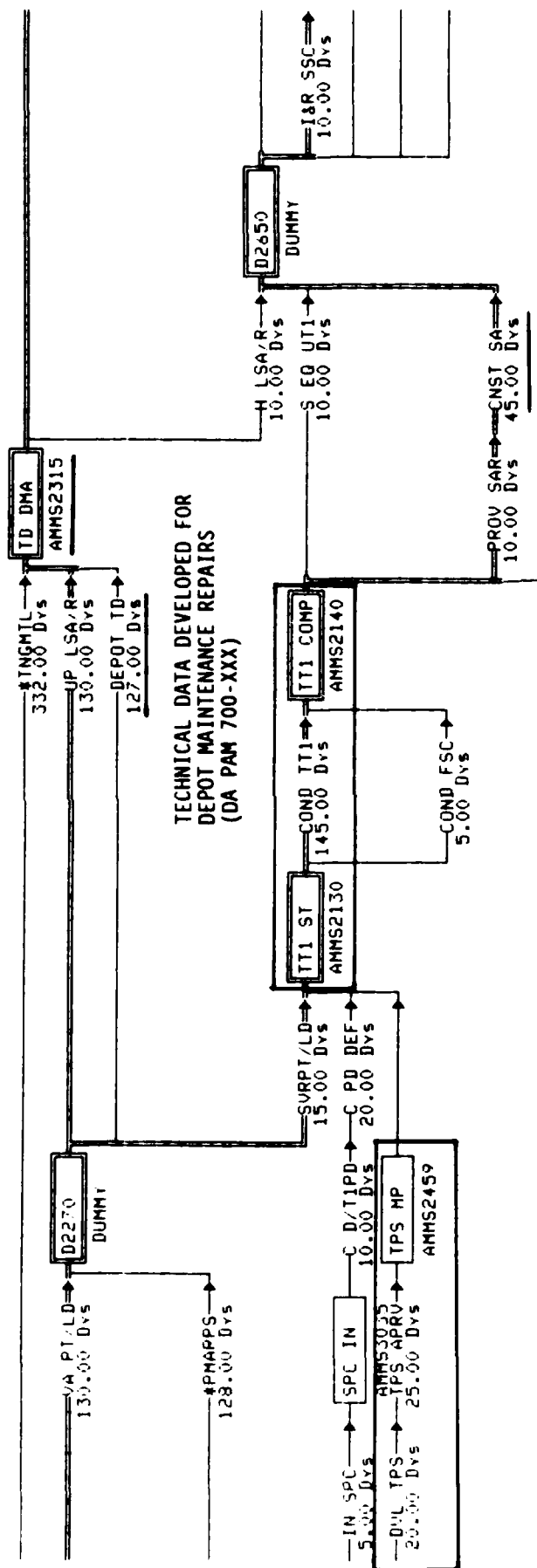


THESE ARE MILESTONES REQUIRED BY AMMS FOR THE SFA AND A TASK TO SHOW HOW TO ACCOMPLISH THE MILESTONE.

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.



TPS MANAGEMENT PLAN FROM THE AMMS  
REGULATION AND THE TASKS NECESSARY  
FOR ACCOMPLISHMENT

DA PAM 700-XXX CHANGES DEVELOPMENTAL  
TESTS (DTs) TO TECHNICAL TESTS (TTs).

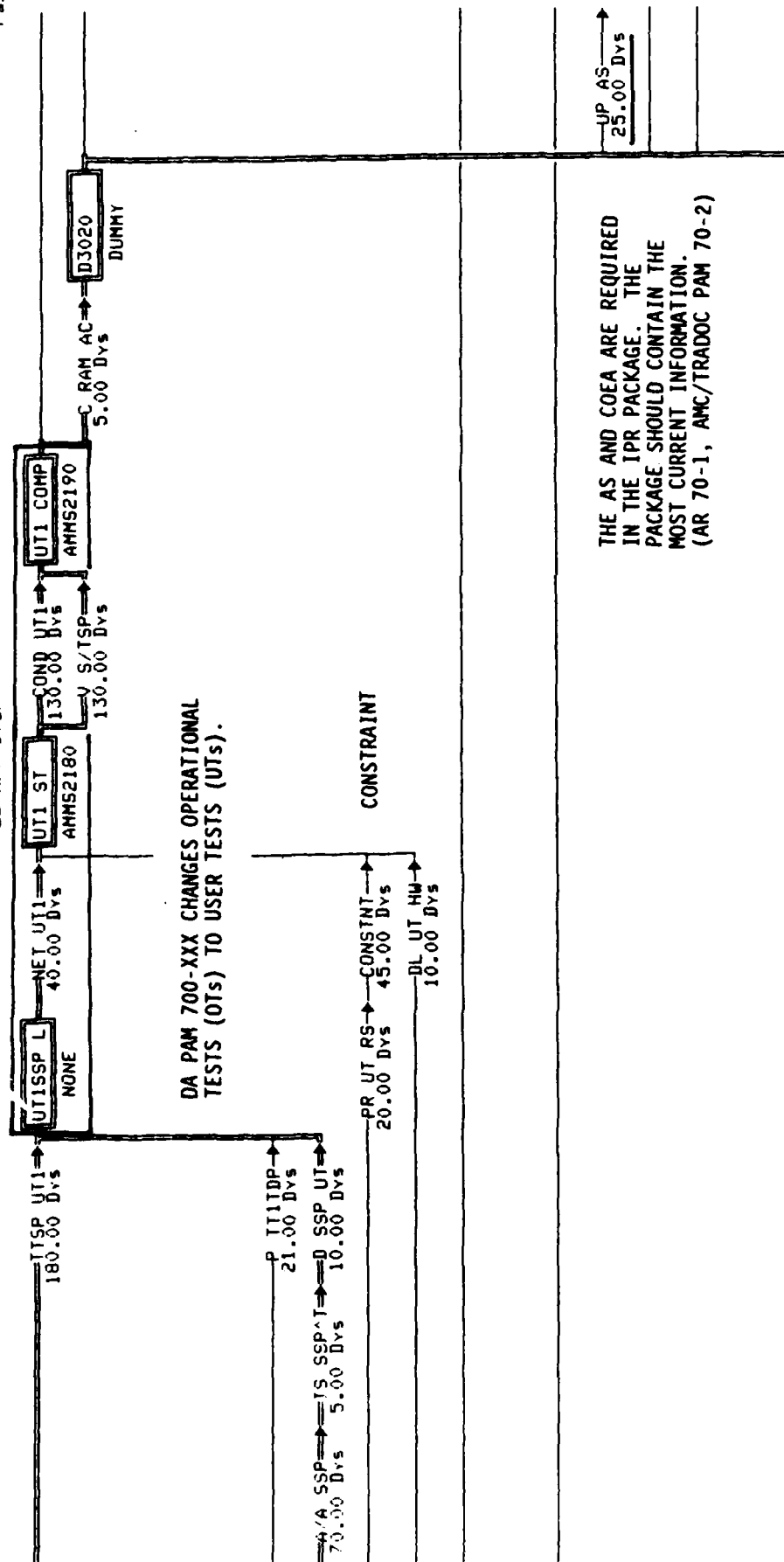
CONSTRAINT

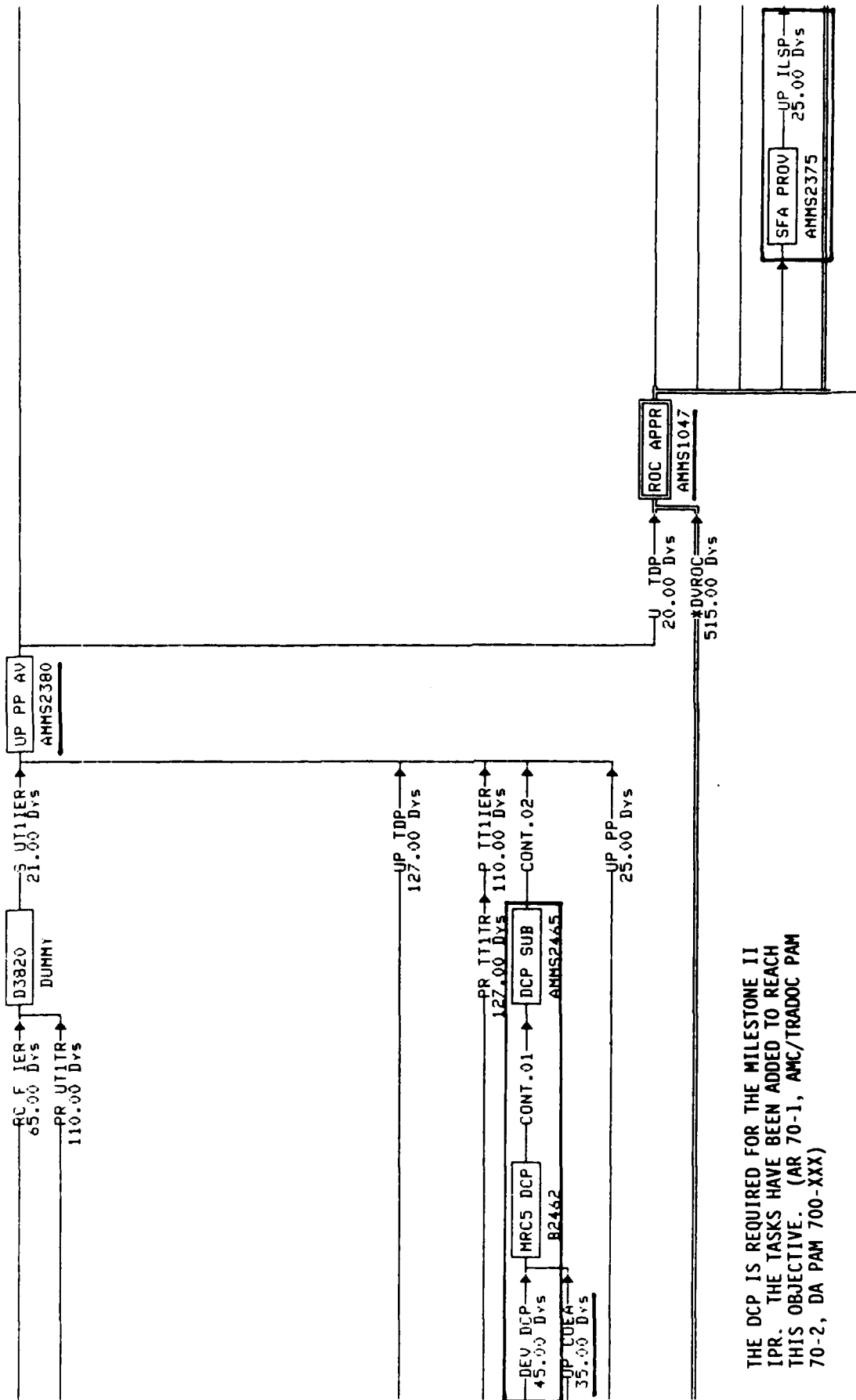
Project: DV

22-APR-1987

Page 3

DEMONSTRATION AND VALIDATION PHASE



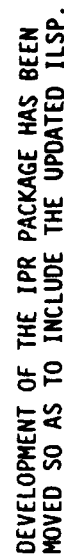


THE DCP IS REQUIRED FOR THE MILESTONE II IPR. THE TASKS HAVE BEEN ADDED TO REACH THIS OBJECTIVE. (AR 70-1, AMC/TRADOC PAM 70-2, DA PAM 700-XXX)

UPDATE THE ILSP TO INCLUDE THE SFA AND THE PROVISIONING PLAN. (DA PAM 700-XXX)



22-APR-1987



DEMONSTRATION AND VALIDATION PHASE  
22-Apr-1987

Project: DU

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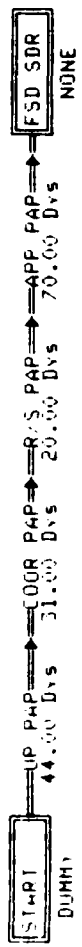
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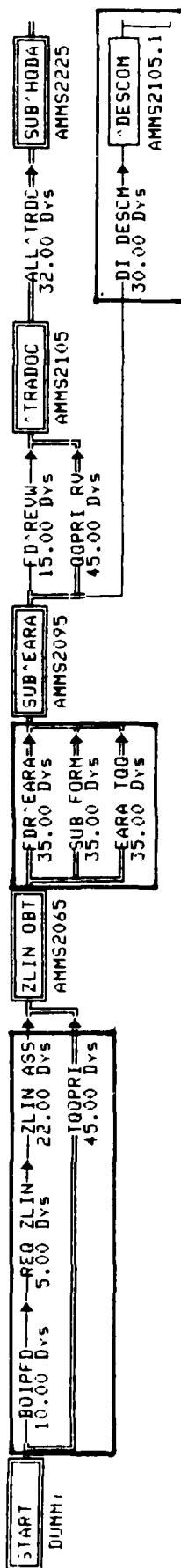
0.04P  
165.00 DYS  
CONT.03

DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

Project: DMWP





THE BOIPFD AND TQPRI WILL BE DEVELOPED CONCURRENTLY AND IN COORDINATION TO EXPEDITE DEVELOPMENT OF BOTH. THEY WILL BE SUBMITTED ALONG WITH THE DI TO EARA AS A PACKAGE. EARA REVIEWS THIS PACKAGE AND SUBMITS IT TO TRADOC. THE DI WILL BE SUBMITTED TO DESCOM. (AMC/TRADOC PAM 70-2, AR 71-2)

BOIP, QQPRI, AND DI FORM ARE SUBMITTED IN A SINGLE PACKAGE. (AMC/TRADOC PAM 70-2)

REQUIRED TASK AND MILESTONE ADDED PER DA PAM 700-XXX.

THE BOIP/QQPRI WILL BE DEVELOPED AND APPROVED CONCURRENTLY WITH THE ROC. (AR 71-9)

Project: DV801P

HQDA B/O 45.00 DYS  
B/O APPR  
AMMS2250

DESIGN 20.00 DYS

DATA CON 15.00 DYS

REQUIRED HEADQUARTERS DA  
APPROVAL ADDED PER AMC/TRADOC  
PAM 70-2, DA PAM 700-XXX.

DEMONSTRATION AND VALIDATION PHASE

22-APR-1987

DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

START DATE: D:CONT





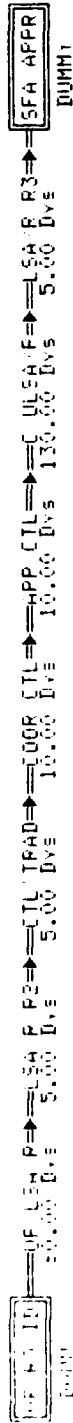




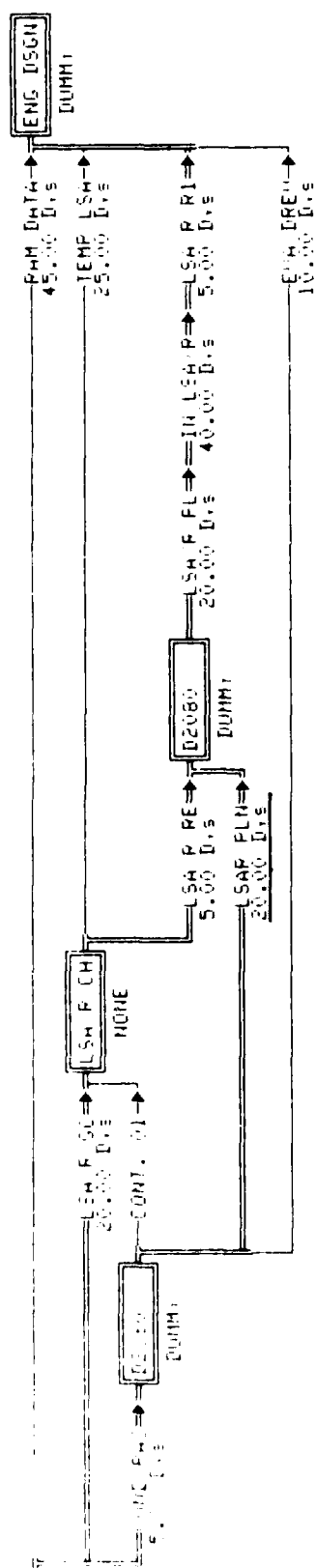
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DEMONSTRATION AND VALIDATION PHASE

23-APR-1997



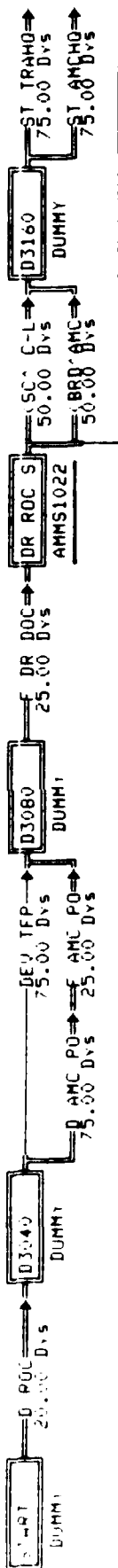




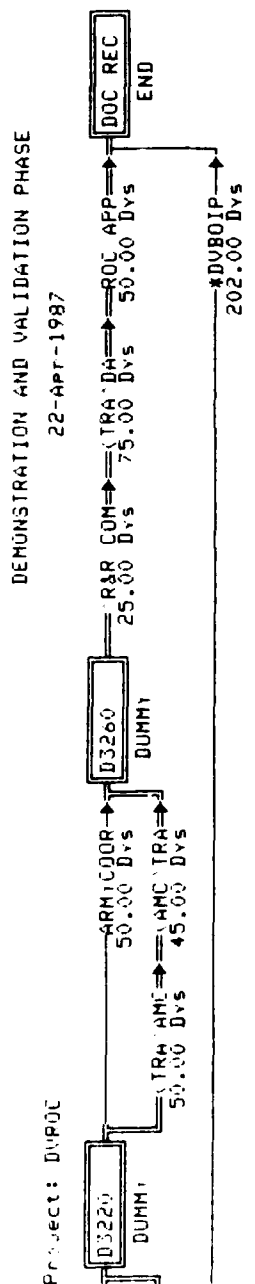
DEMONSTRATION AND VALIDATION PHASE

22-APR-1987

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THE ROC WILL NOT NORMALLY BE APPROVED  
UNTIL PROOF OF PRINCIPLE (DEMONSTRATION  
AND VALIDATION) HAS BEEN CONDUCTED  
UNDER AN APPROVED O & O PLAN. (AR 71-9)



THE DEVELOPMENT OF A DRAFT REQUIREMENT DOCUMENT (i.e. ROC) INITIATES THE ASSIGNMENT OF A Z-LIN AND DEVELOPMENT OF THE TBOIPFD AND TQPRI. (AR 71-2)

THE TIMELINESS OBJECTIVE REQUIRES THAT THE BOIP AND THE ROC BE APPROVED AT THE SAME TIME. (AR 71-9)

# DEMONSTRATION AND VALIDATION PHASE

23-MAR-1987

Page 1

Project DUMDEFT

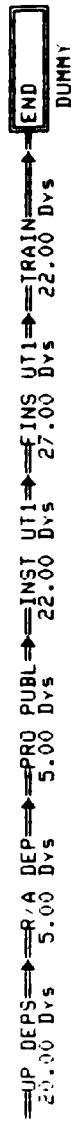




DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

Project: DIVINGMTL





DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

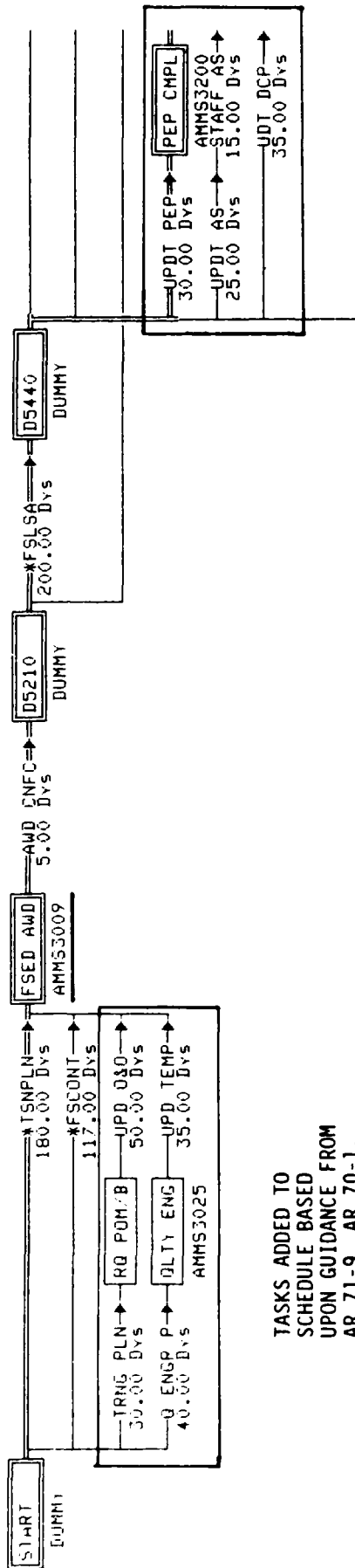
Project: DUTRANS



FULL SCALE DEVELOPMENT PHASE  
RESEARCH AND DEVELOPMENT TEMPLATE

FULL SCALE DEVELOPMENT PHASE  
23-APR-1987

Project: FS



TASKS ADDED TO  
SCHEDULE BASED  
UPON GUIDANCE FROM  
AR 71-9, AR 70-1,  
DA PAM 700-XXX,  
AND AMC/TRADOC  
PAM 70-2

TASKS ADDED TO  
SCHEDULE BASED  
UPON GUIDANCE FROM  
DA PAM 700-XXX AND  
AMC/TRADOC PAM 70-2

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D",  
SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM  
REQUIRES THESE NODES IN CASES WHERE TWO OR  
MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK  
BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT",  
SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM  
REQUIRES THESE NODES IN CASES WHERE THERE  
ARE TWO MILESTONES IN SEQUENCE.

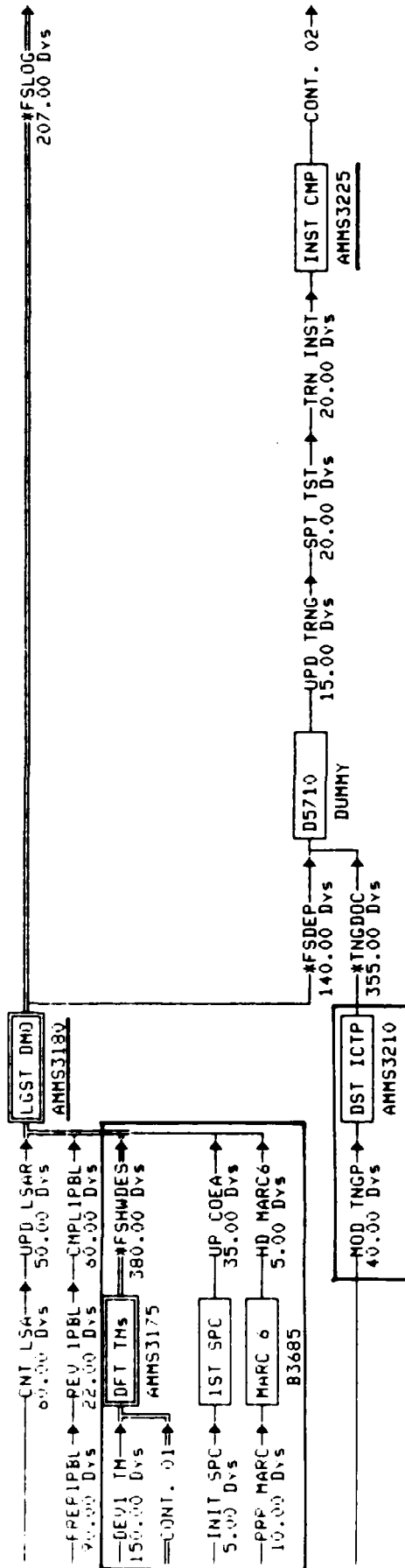
THE TASKS ADDED ARE PROVIDED  
AS PERTINENT TO THE ACCOMPLISHMENT  
OF THE AMMS MILESTONES AS  
DESCRIBED IN DA PAM 700-XX.  
DURATION TIMES ARE BASED UPON  
ESTIMATED LEVELS OF EFFORT  
AND EXTRAPOLATION FROM SIMILAR  
TASKS PREVIOUSLY BUILT INTO  
THE SCHEDULE.

# FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

Page 2

PROJECT: F5

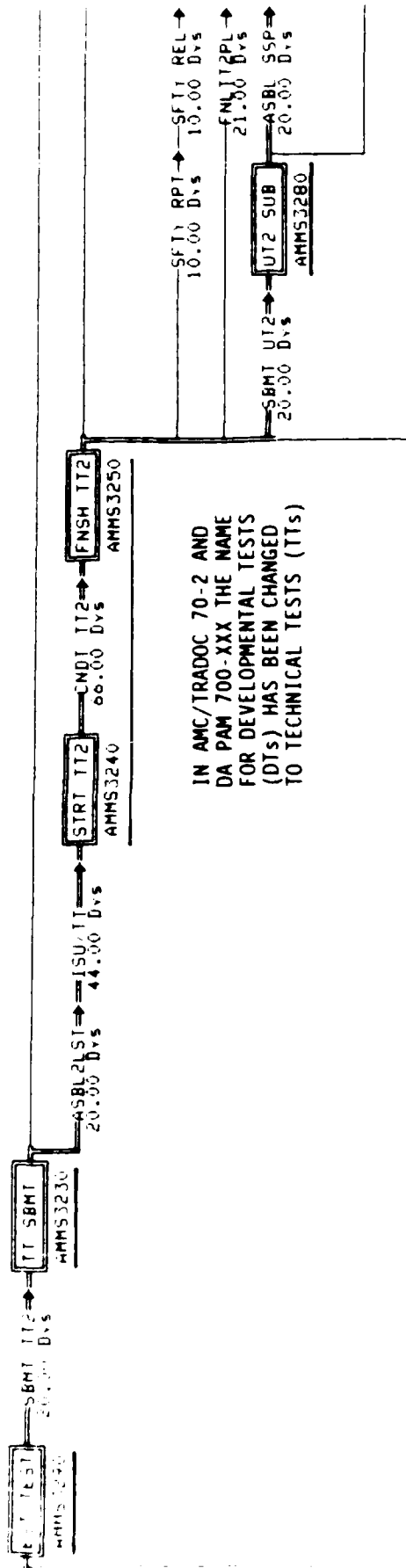


TASK AND MILESTONES ADDED  
TO SCHEDULE TO ACCOMPLISH  
PROGRAM MANAGEMENT PLANNING.  
(AR 70-1, AR 71-9, AMC/TRADOC  
PAM 70-2, AND DA PAM 700-XXX

# FULL SCALE DEVELOPMENT PHASE

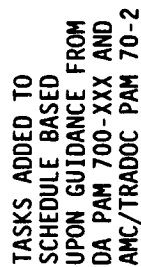
23-Apr-1987

Page 3



IN AMC/TRADOC 70-2 AND  
DA PAM 700-XXX THE NAME  
FOR DEVELOPMENTAL TESTS  
(DTs) HAS BEEN CHANGED  
TO TECHNICAL TESTS (TTs)

23-APR-1987

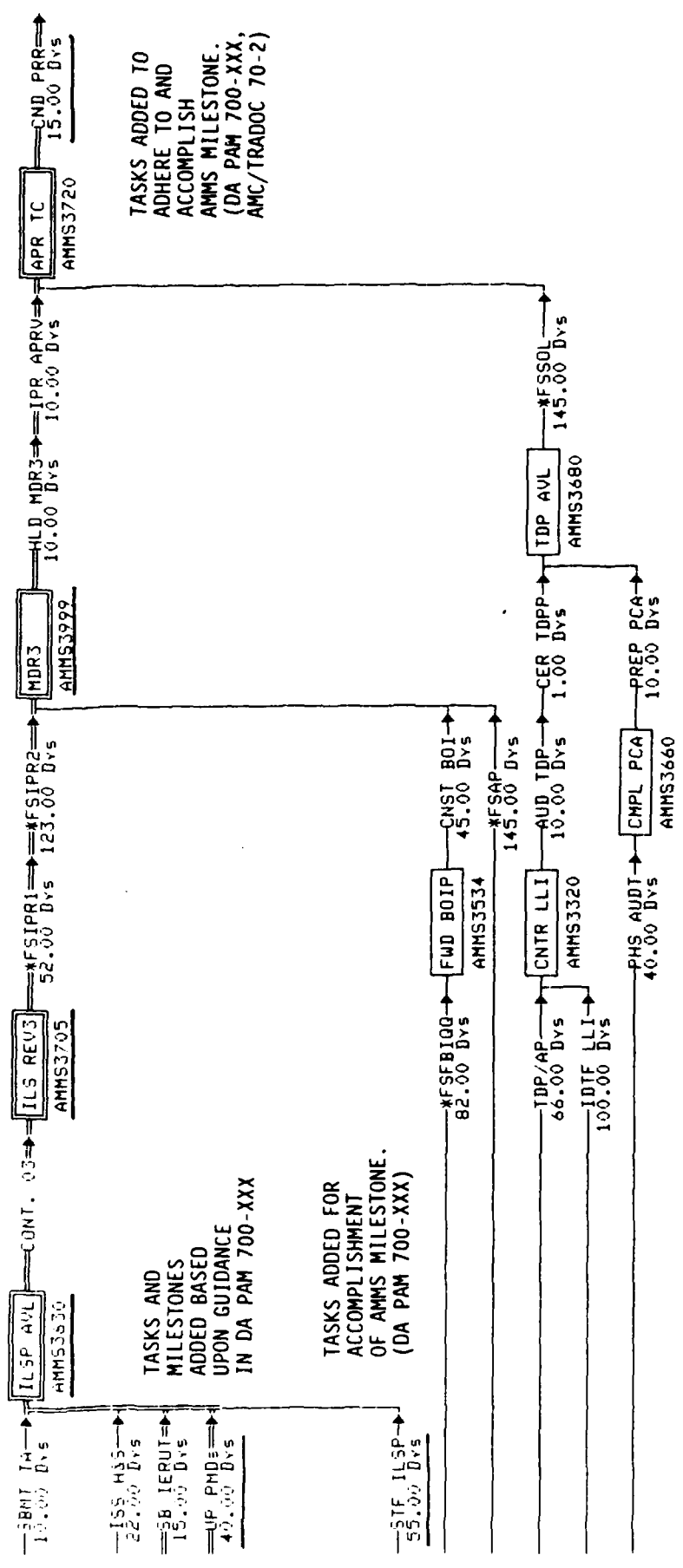


FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

Page 5

Project: FS



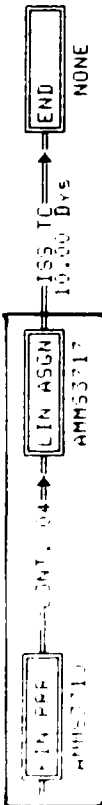
TASKS AND MILESTONES ADDED BASED UPON GUIDANCE IN DA PAM 700-XXX

TASKS ADDED FOR ACCOMPLISHMENT OF AMMS MILESTONE. (DA PAM 700-XXX)

TASKS ADDED TO ADHERE TO AND ACCOMPLISH AMMS MILESTONE. (DA PAM 700-XXX, AMC/TRADOC 70-2)

FULL SCALE DEVELOPMENT PHASE

23-APR-1987

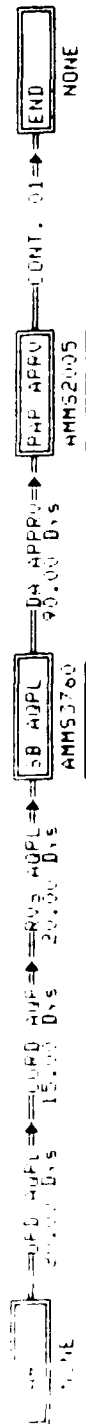


TASKS AND  
MILESTONES  
ADDED BASED  
UPON GUIDANCE  
IN DA PAM 700-XXX



FULL SCALE DEVELOPMENT PHASE

23-Mar-1987

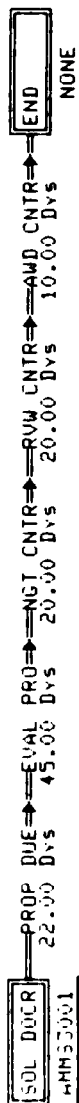


FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

Project: FSCONT

Page 1



FULL SCALE DEVELOPMENT PHASE

23-APR-1987

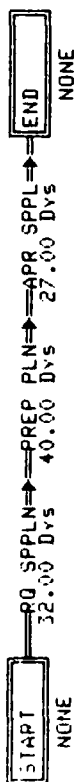
Project: FSDP



FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

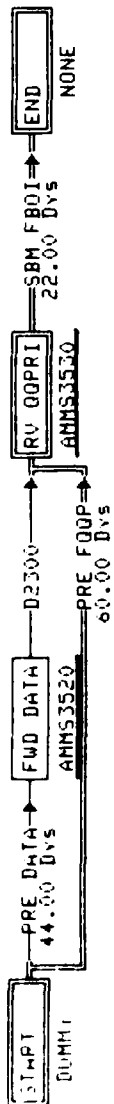
Project: FSDSP



FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

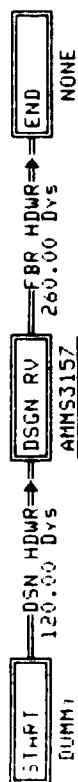
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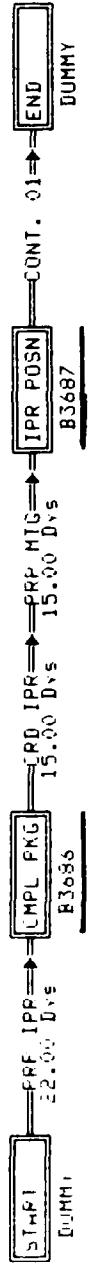


FULL SCALE DEVELOPMENT PHASE

23-APR-1987

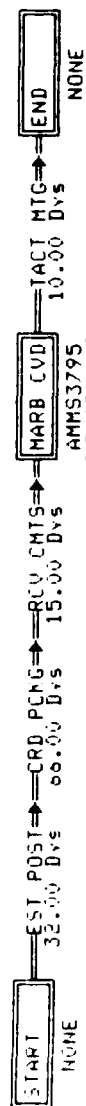
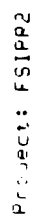
Project: FSHWDES





FULL SCALE DEVELOPMENT PHASE

23-Apr-1987



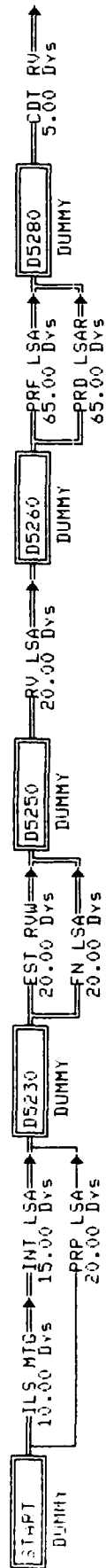


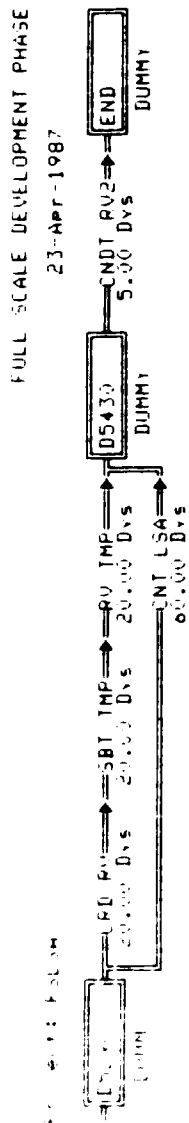
FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

Project: FSL5A

Page 1

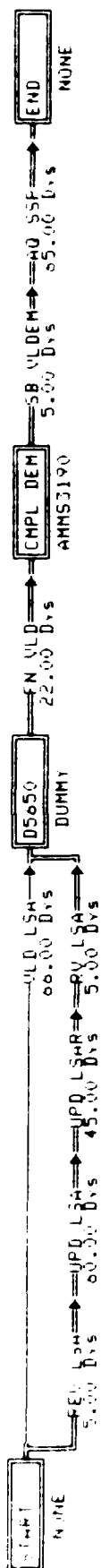




FULL SCALE DEVELOPMENT PHASE

23-APR-1987

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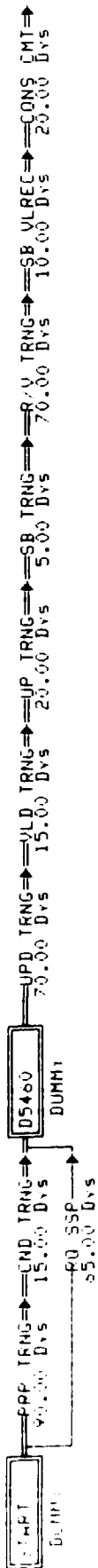




FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

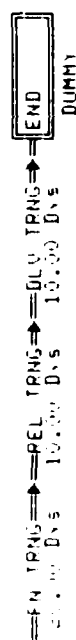
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## FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

FR. 1000: F51NGD00C



# FULL SCALE DEVELOPMENT PHASE

23-APR-1987

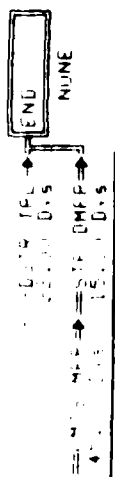
ENGINEER: F015NPLN



THE TASKS ADDED ARE PROVIDED  
AS PERTINENT TO THE ACCOMPLISHMENT  
OF THE AMMS MILESTONES AS  
DESCRIBED IN DA PAM 700-XX.  
DURATION TIMES ARE BASED UPON  
ESTIMATED LEVELS OF EFFORT  
AND EXTRAPOLATION FROM SIMILAR  
TASKS PREVIOUSLY BUILT INTO  
THE SCHEDULE.

FULL SCALE DEVELOPMENT PHASE  
23-APR-1997

Page 2



TASKS ADDED TO  
SCHEDULE BASED  
UPON GUIDANCE FROM  
DA PAM 700-XXX AND  
AMC/TRADOC PAM 70-2



PRODUCTION AND DEPLOYMENT PHASE  
RESEARCH AND DEVELOPMENT TEMPLATE

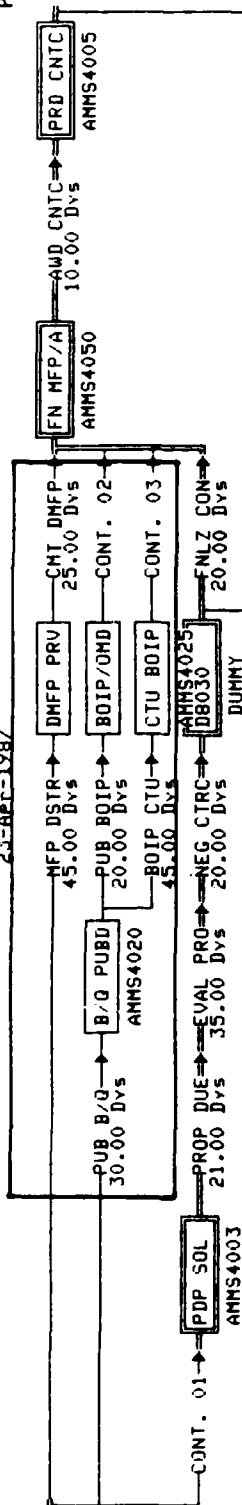
Project: PD

FDP PDM  
AMMS4000

23-Apr-1987

PRODUCTION AND DEPLOYMENT PHASE

Page 1



MILESTONES AND TASKS  
ADDED TO COMPLETE  
THE BOIP/QOPRI  
PROCESS. (AR 71-2,  
AMC/TRADOC PAM  
70-2, AND DA  
PAM 700-XXX)

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D",  
SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM  
REQUIRES THESE NODES IN CASES WHERE TWO OR  
MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK  
BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT",  
SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM  
REQUIRES THESE NODES IN CASES WHERE THERE  
ARE TWO MILESTONES IN SEQUENCE.

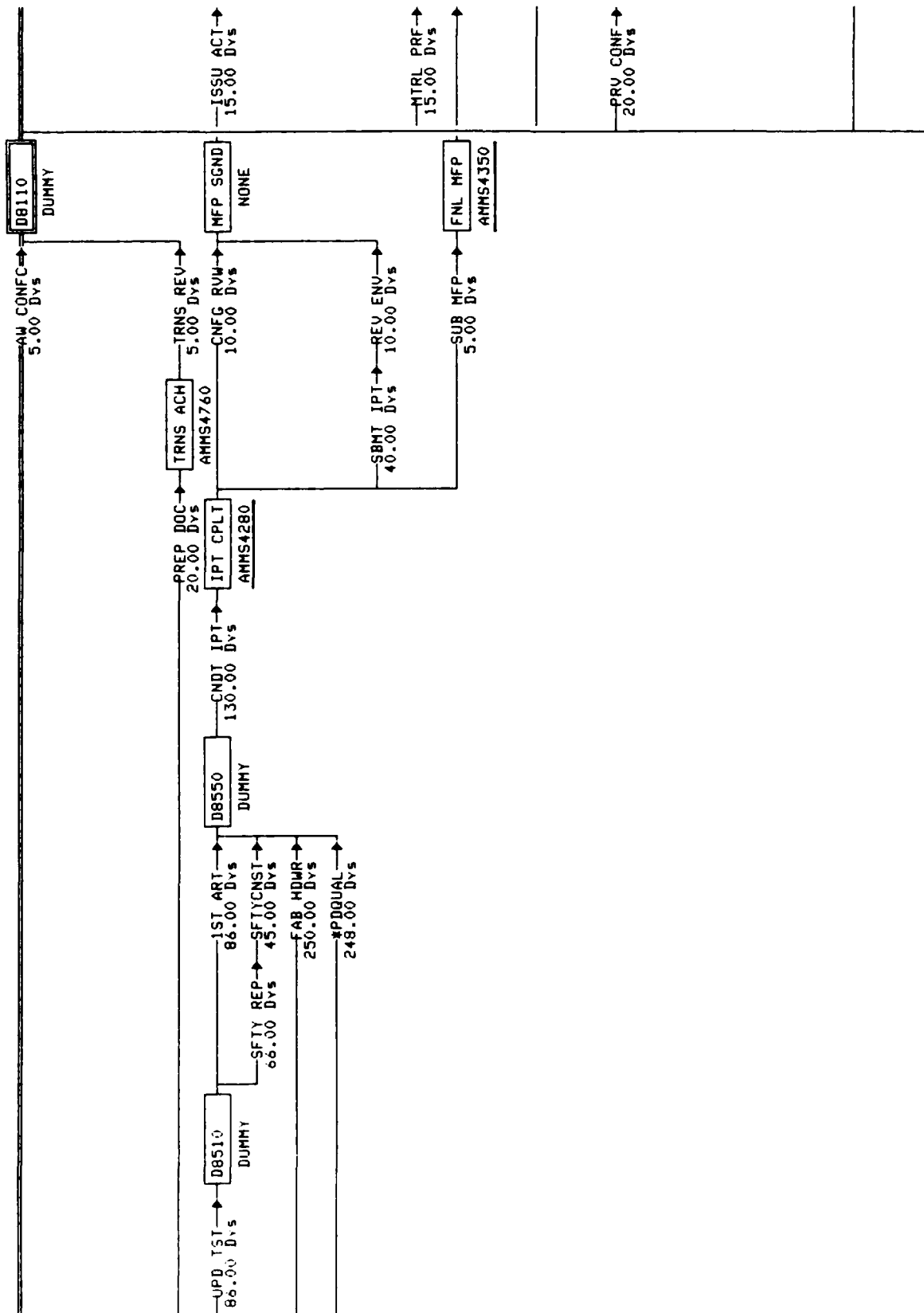
THE TASKS ADDED ARE PROVIDED  
AS PERTINENT TO THE ACCOMPLISHMENT  
OF THE AMMS MILESTONES AS  
DESCRIBED IN DA PAM 700-XX.  
DURATION TIMES ARE BASED UPON  
ESTIMATED LEVELS OF EFFORT  
AND EXTRAPOLATION FROM SIMILAR  
TASKS PREVIOUSLY BUILT INTO  
THE SCHEDULE.

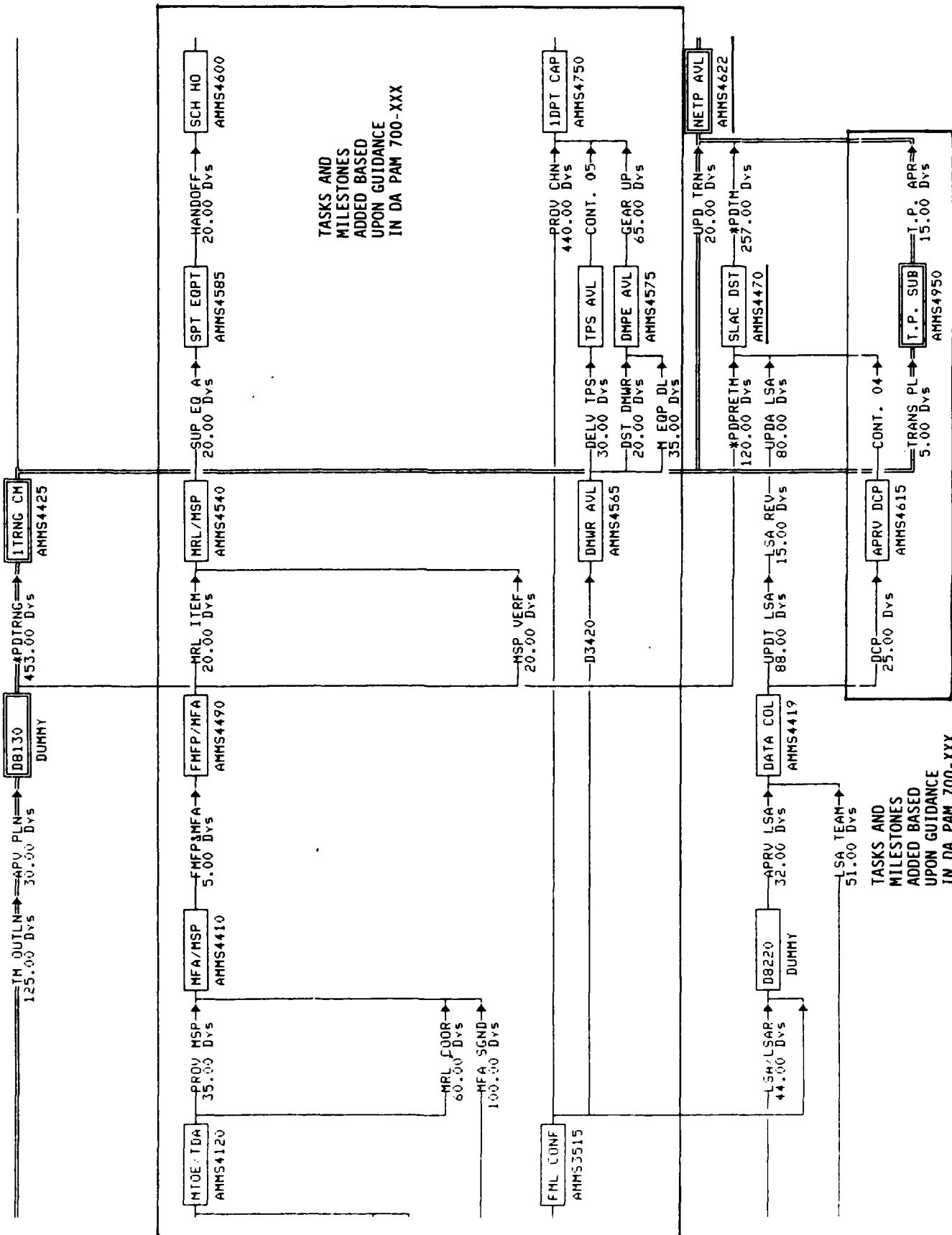
# PRODUCTION AND DEPLOYMENT PHASE

Project: PD

23-Apr-1987

Page 2



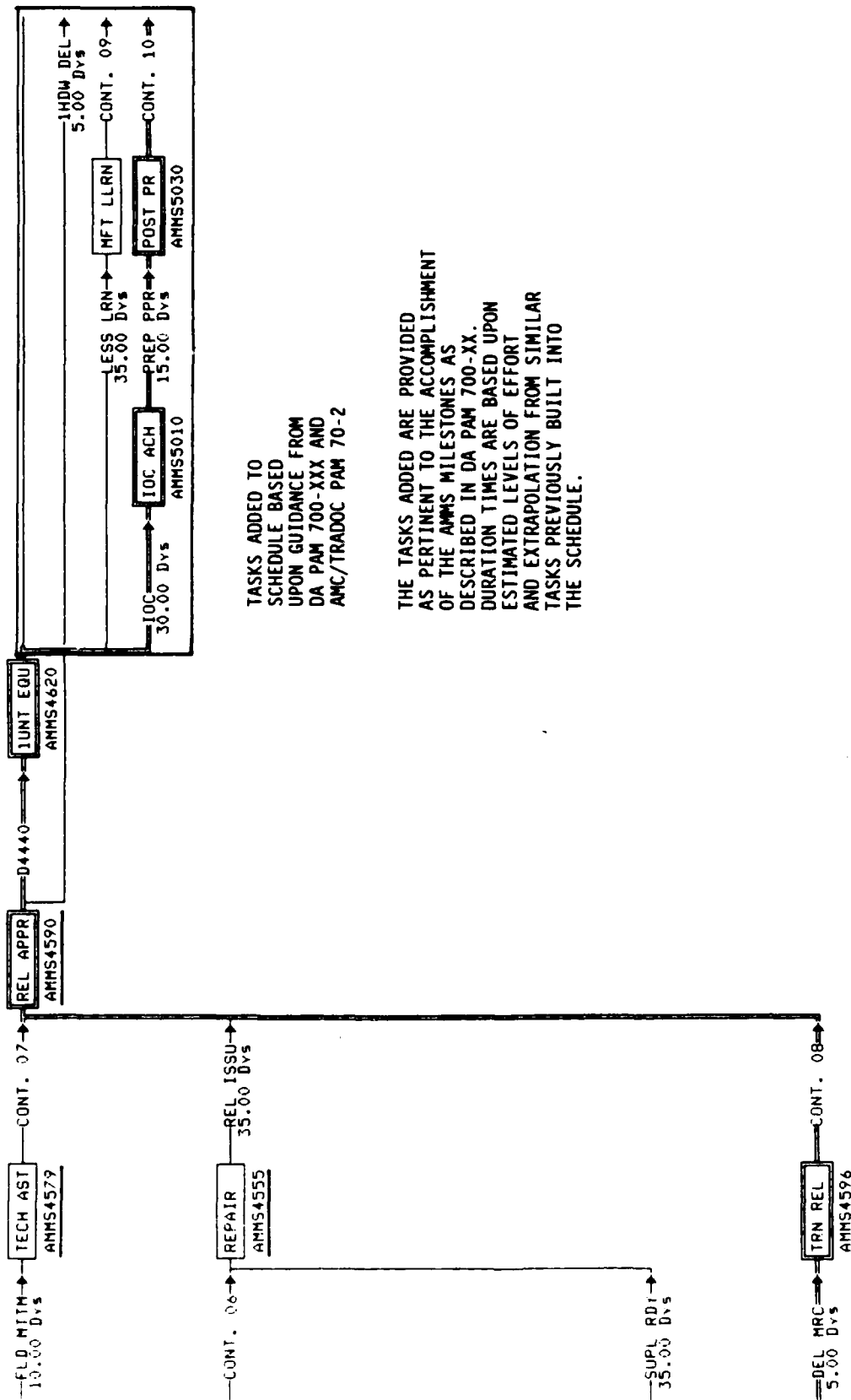


Project: PD

PRODUCTION AND DEPLOYMENT PHASE

23-APR-1987

Page 4



TASKS ADDED TO  
SCHEDULE BASED  
UPON GUIDANCE FROM  
DA PAM 700-XXX AND  
AMC/TRADOC PAM 70-2

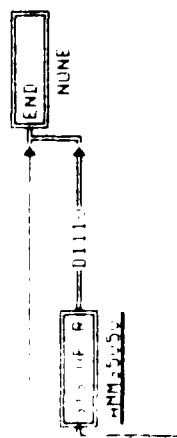
THE TASKS ADDED ARE PROVIDED  
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OF THE AMMS MILESTONES AS  
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DURATION TIMES ARE BASED UPON  
ESTIMATED LEVELS OF EFFORT  
AND EXTRAPOLATION FROM SIMILAR  
TASKS PREVIOUSLY BUILT INTO  
THE SCHEDULE.

18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Page 5

## PRODUCTION AND DEPLOYMENT PHASE

23-Apr-1987

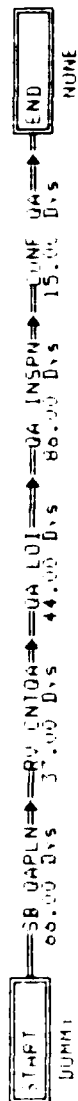




# PRODUCTION AND DEPLOYMENT PHASE

23 APR 1987

PROJECT: FDUHML







PRODUCTION AND DEPLOYMENT PHASE

23-APR-1987

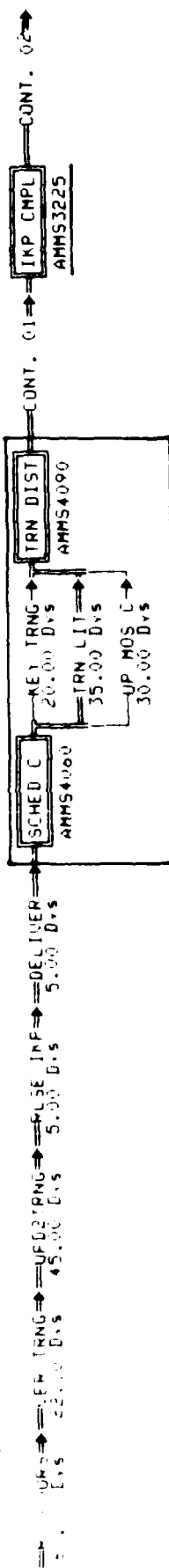
Project: PDIM





PRODUCTION AND DEPLOYMENT PHASE

23-Apr-1987



TASKS ADDED TO  
SCHEDULE BASED  
UPON GUIDANCE FROM  
DA PAM 700-XXX.

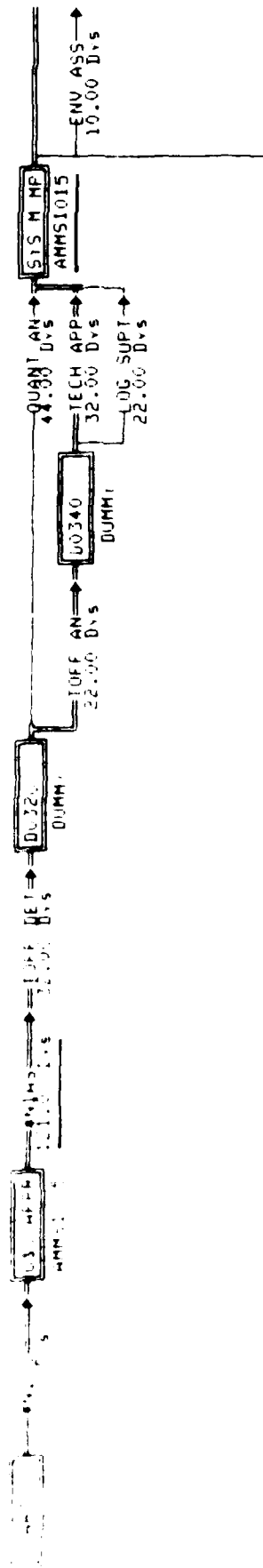
THE TASKS ADDED ARE PROVIDED  
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OF THE AMMS MILESTONES AS  
DESCRIBED IN DA PAM 700-XX.  
DURATION TIMES ARE BASED UPON  
ESTIMATED LEVELS OF EFFORT  
AND EXTRAPOLATION FROM SIMILAR  
TASKS PREVIOUSLY BUILT INTO  
THE SCHEDULE.



NONDEVELOPMENT ITEM PHASE I

NDI TEMPLATE

23 Apr 198



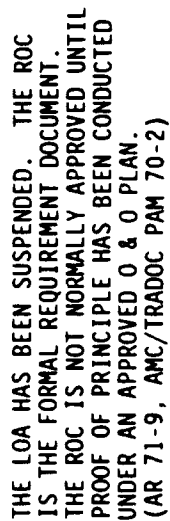
MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.

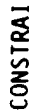








1921-1922

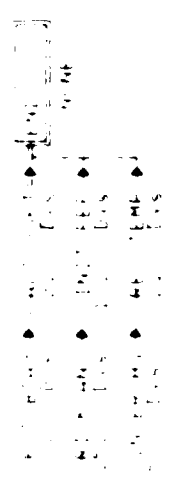


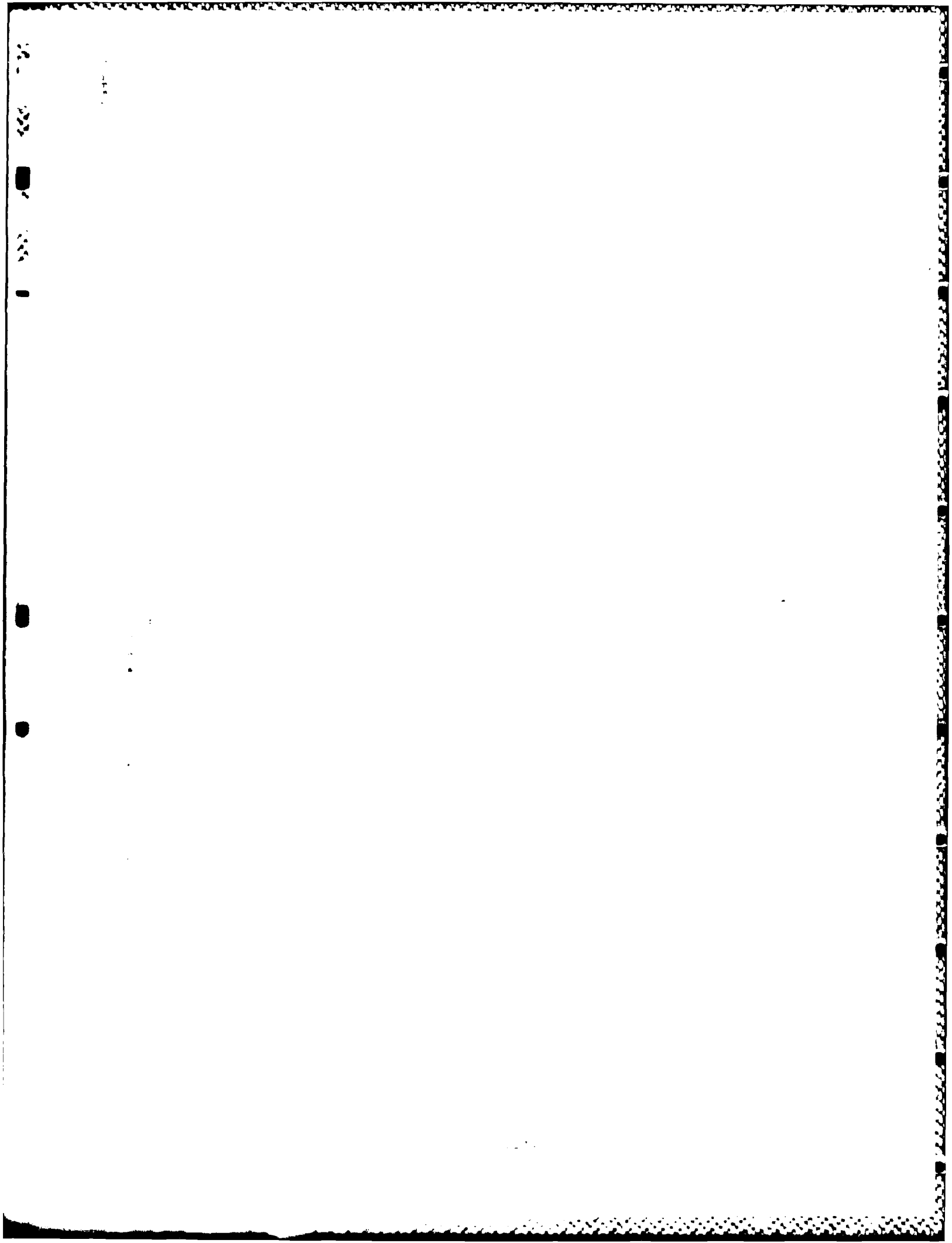
THE ACQUISITION STRATEGY IS THE HEART OF PROGRAM PLANNING AND SETS THE BASIC COURSE OF ACTION TO BE FOLLOWED. (AR 70 1)

11 22 33 44 55 66 77 88 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

1994

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000



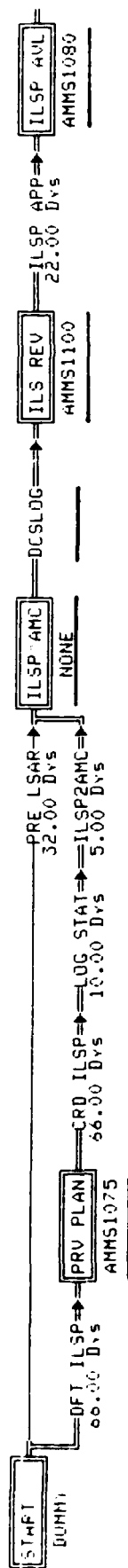


# NONDEVELOPMENT ITEM (NDI) PHASE I

Page 1

Project: NIIISP

23-Apr-1987



NO DEVELOPMENT ITEM - NDI - PHASE I

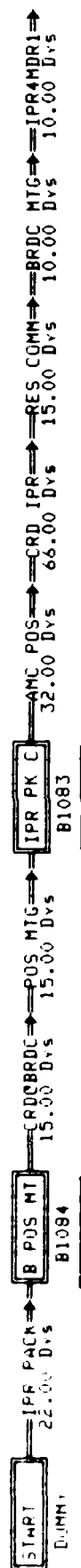
20-Apr-1987

FOR INFO ONLY

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END

  
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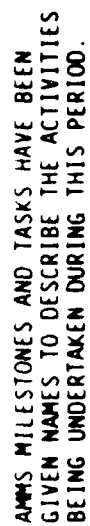
WIND DEVELOPMENT ITEM (NDI) PHASE I

23-APR-1987

6-11 NICH-124





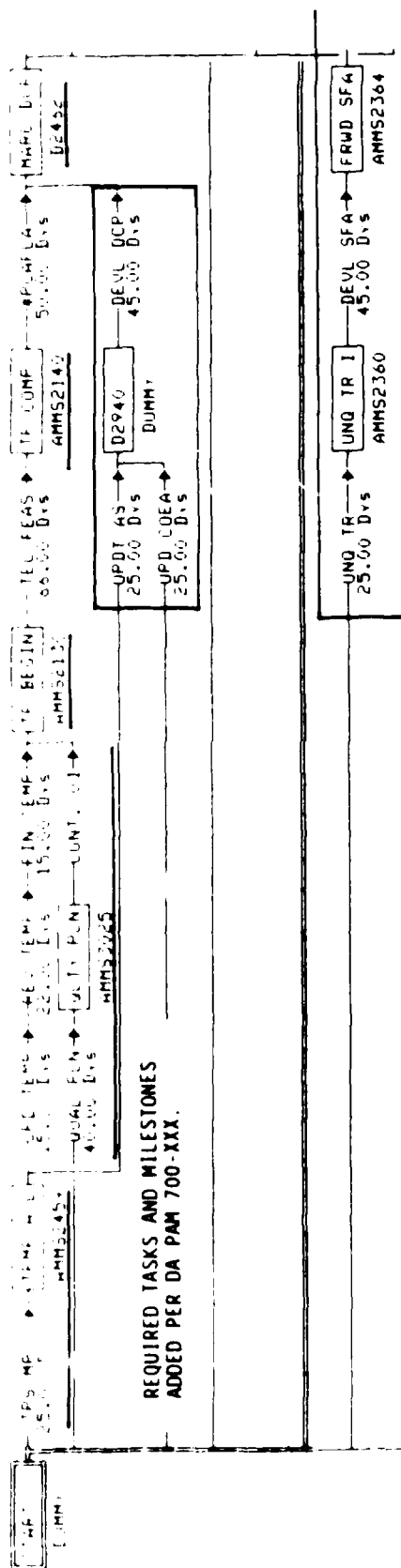


PROJECT: NITRUS



NONDEVELOPMENT ITEM PHASE II

NDI TEMPLATE



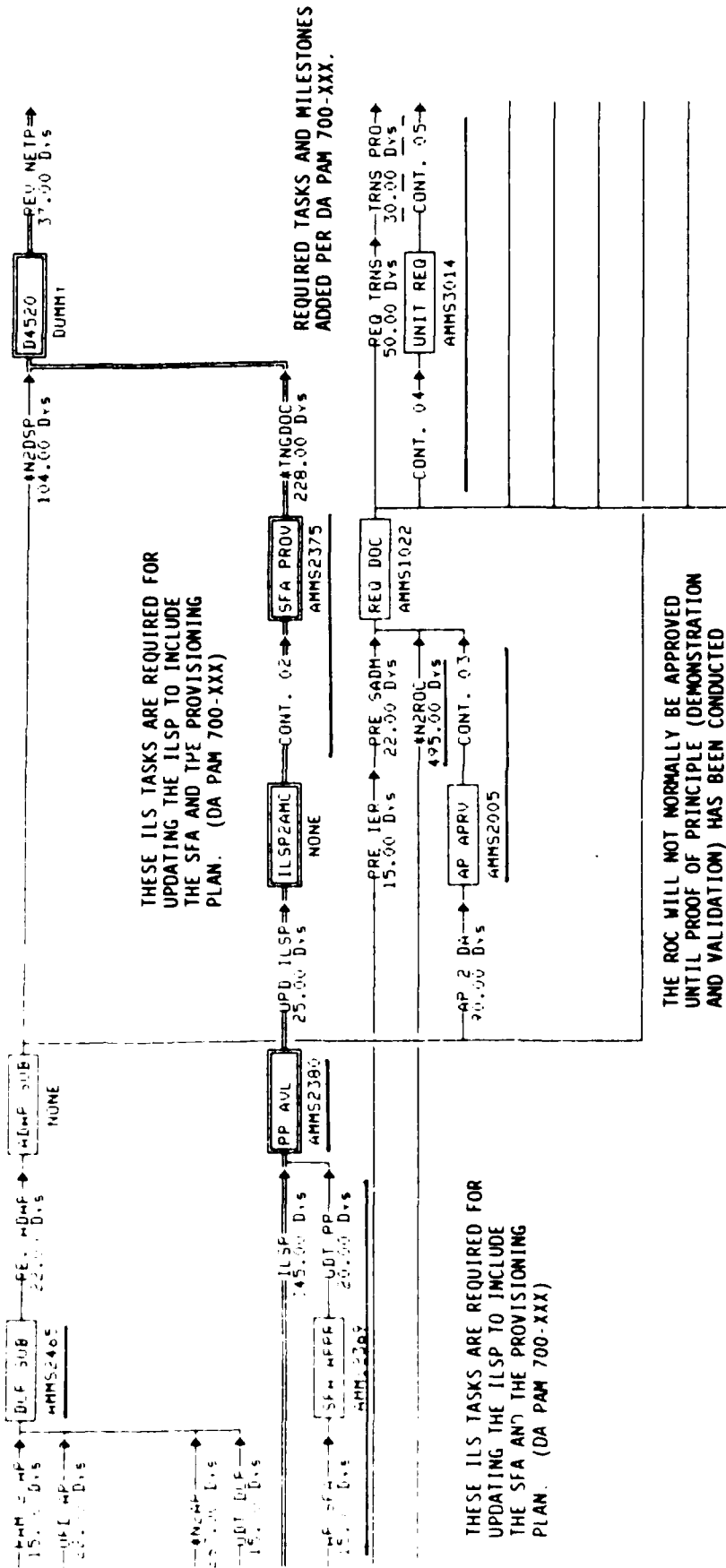
THE AS AND COEA ARE REQUIRED PROGRAM MANAGEMENT DOCUMENTS. THESE DOCUMENTS PACKAGE SHOULD CONTAIN THE MOST CURRENT PROGRAM DATA. THE DCP IS REQUIRED FOR THE MILESTONE III IPR. THE TASKS HAVE BEEN ADDED TO ACHIEVE THIS OBJECTIVE. (AR 70-1, AMC/TRADOC PAM 70-2, DA PAM 700-XXX)

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

THESE ILS TASKS ARE REQUIRED FOR UPDATING THE ILSP TO INCLUDE THE SFA AND THE PROVISIONING PLAN. (DA PAM 700-XXX)

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.

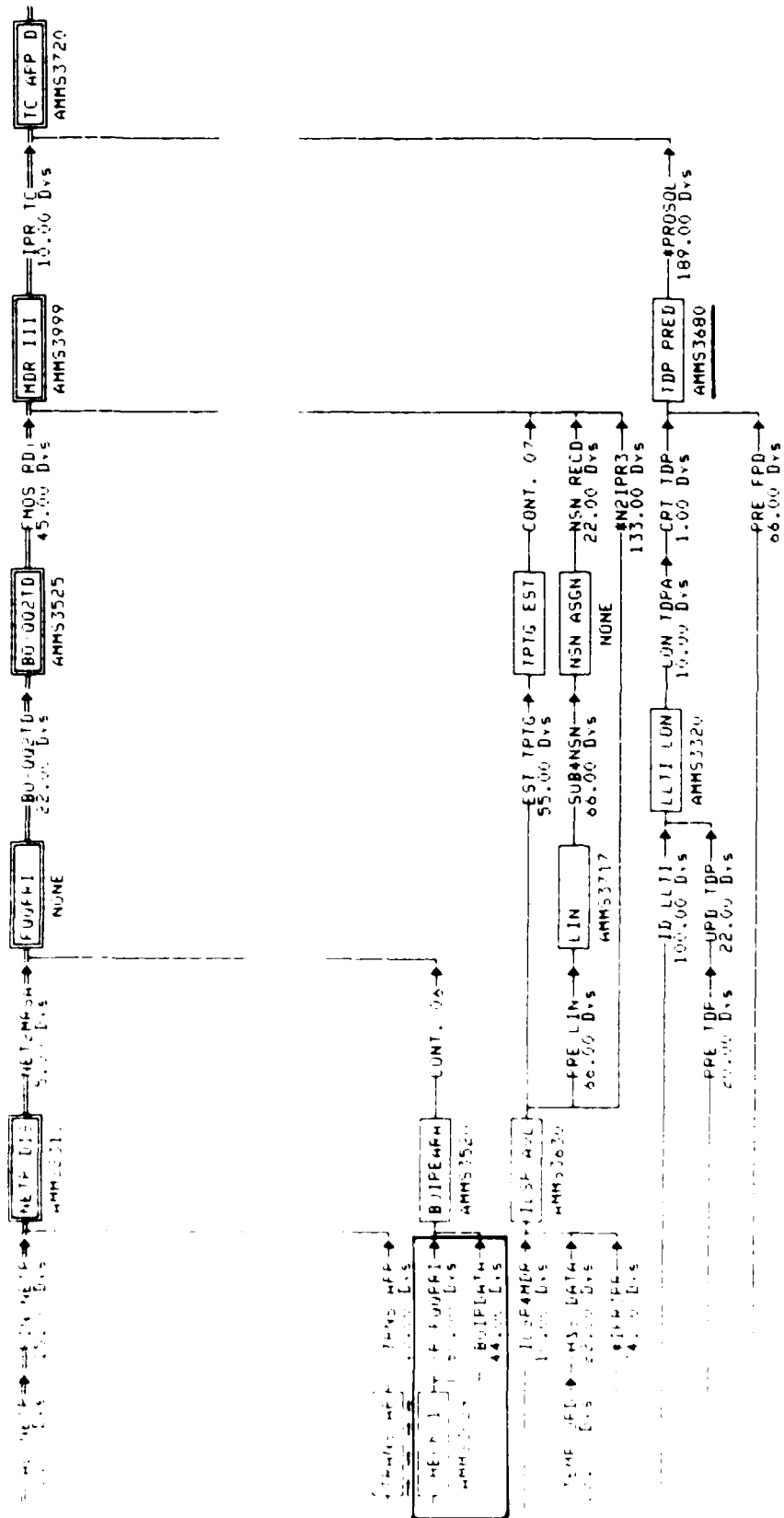


THE ROC WILL NOT NORMALLY BE APPROVED UNTIL PROOF OF PRINCIPLE (DEMONSTRATION AND VALIDATION) HAS BEEN CONDUCTED UNDER AN APPROVED O & O PLAN. (AR 71-9, AMC/TRADOC PAM 70-2)

DUPLICATE NAMES HAVE BEEN CHANGED.

# MONITORING ITEM (MIDI) PHASE II

Page 3



THE BOIPFO AND QPQRI WILL BE DEVELOPED CONCURRENTLY AND IN COORDINATION TO EXPEDITE THEIR DEVELOPMENT. THESE DOCUMENTS WILL BE SUBMITTED ALONG WITH THE DI TO EARA IN A SINGLE PACKAGE. EARA REVIEWS THIS PACKAGE AND SUBMITS IT TO TRADOC. THE DI WILL BE SUBMITTED TO DESCOM. (AMC/TRADOC PAM 70-2, AR 71-2, AR 71-9)



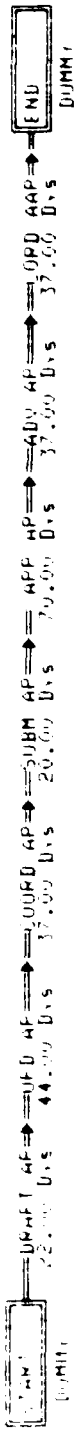
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# NONDEVELOPMENT ITEM - INDIC - PHASE II

23 Apr-1987

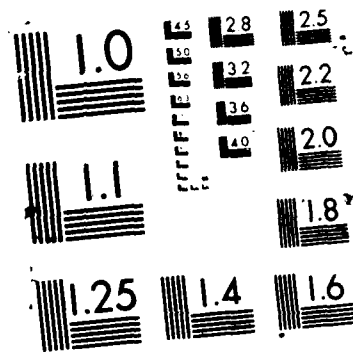
PROJECT NAME



24

**1**

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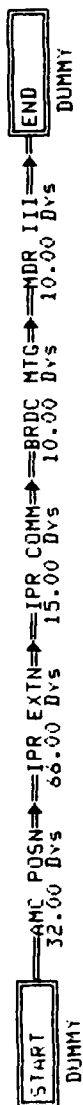




NONDEVELOPMENT ITEM (NDI) PHASE II

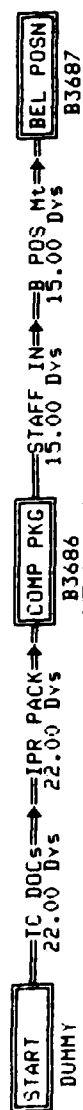
23-Apr-1987

Project: N2IPR3



## NONDEVELOPMENT ITEM (NDI) PHASE II

23-APR-1987

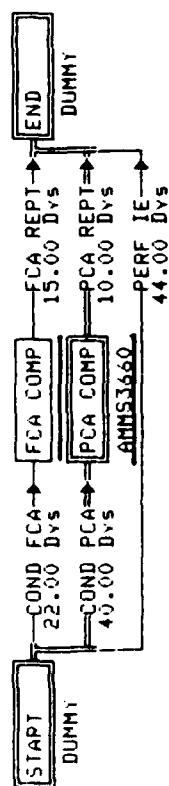


**DUPLICATE NAMES HAVE BEEN CHANGED.**

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NONDEVELOPMENT ITEM (NDI) PHASE II  
23-Apr-1987

Project: N2PCA/CA



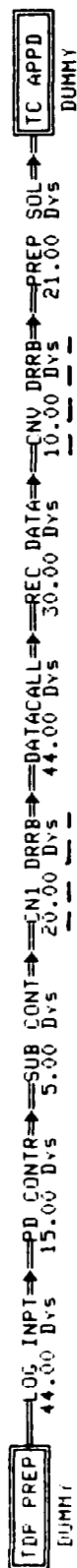


Project: N2FR050L

24-Apr-1987

NONDEVELOPMENT ITEM (NDI) PHASE II

Page 1



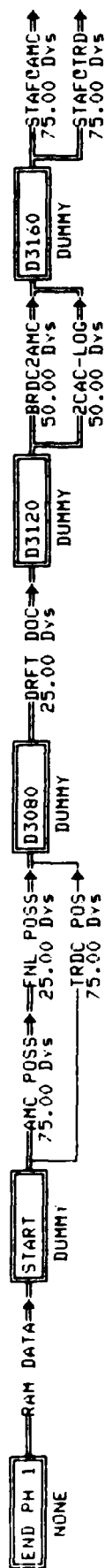
DUPLICATE NAMES HAVE BEEN CHANGED.

Project: N2R0C

23-Apr-1987

NONDEVELOPMENT ITEM (NDI) PHASE II

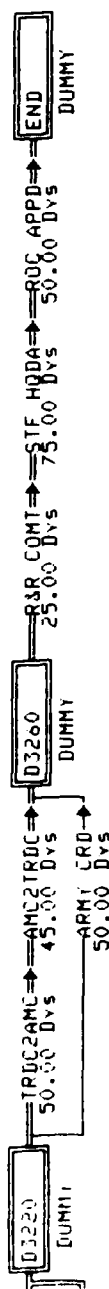
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NONDEVELOPMENT ITEM (NDI) PHASE II

23-Apr-1987

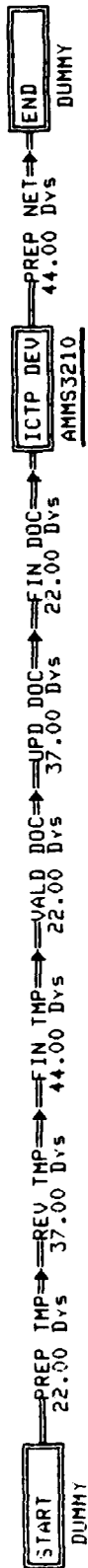
Project: N2RDC



NONDEVELOPMENT ITEM (NDI) PHASE II

23-Apr-1987

Project: N2TNGDOC



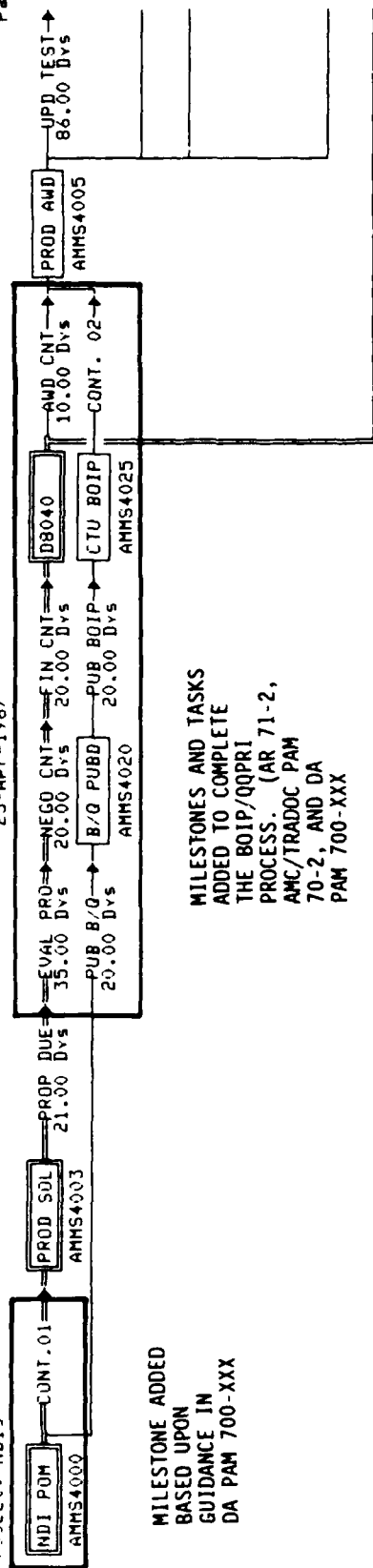
NONDEVELOPMENT ITEM PHASE III  
NDI TEMPLATE

Project: NDI3

NONDEVELOPMENT ITEM (NDI) PHASE III

23-APR-1987

Page 1



THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

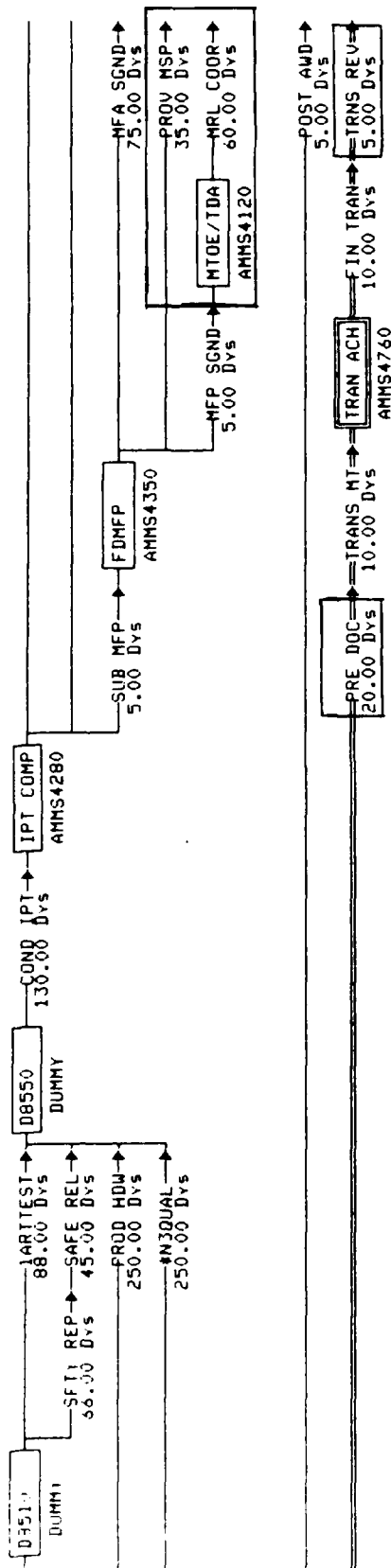
TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

Project: ND13

# NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

Page 2



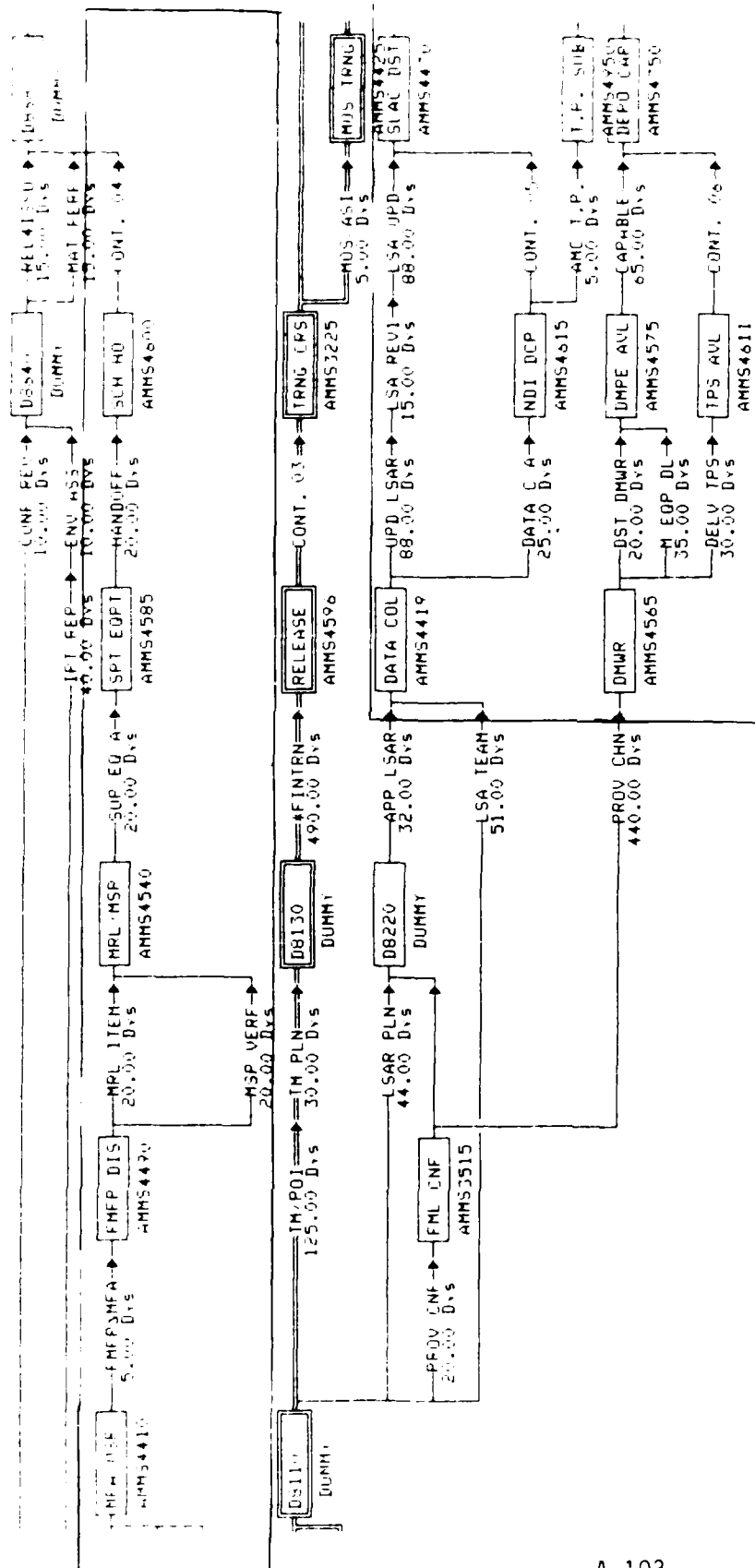
TASKS AND  
MILESTONES  
ADDED BASED  
UPON GUIDANCE  
IN DA PAM 700-XXX

TASKS ADDED TO  
SCHEDULE BASED  
UPON GUIDANCE FROM  
DA PAM 700-XXX AND  
AMC/TRADOC PAM 70-2

# NONDEVELOPMENT ITEM (NDI) PHASE III

23-SEP-1987

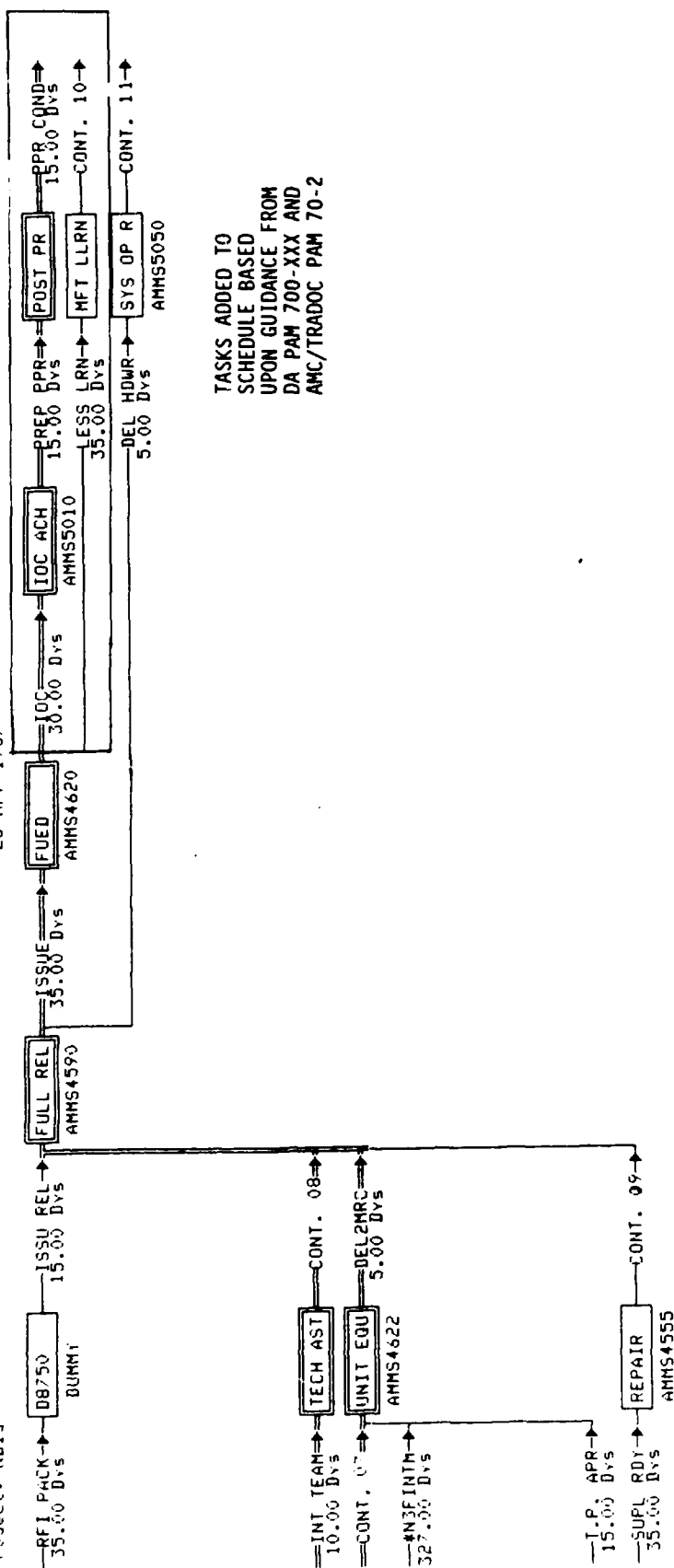
Page 1



TASKS AND  
MILESTONES  
ADDED BASED  
UPON GUIDANCE  
IN DA PAM 700 XXX

TASKS AND  
MILESTONES  
ADDED BASED  
UPON GUIDANCE  
IN DA PAM 700-XXX





TASKS ADDED TO  
SCHEDULE BASED  
UPON GUIDANCE FROM  
DA PAM 700-XXX AND  
AMC/TRADOC PAM 70-2

NONDEVELOPMENT ITEM (NDI) PHASE III  
23-Apr-1987

Project: NDI3

END

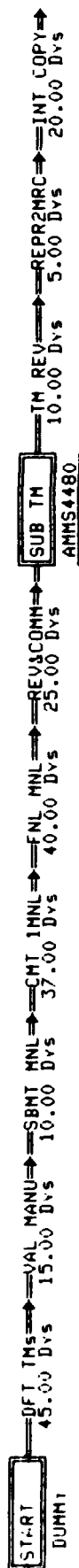
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Project: NJFINIM

NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

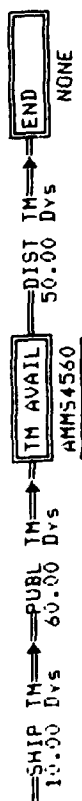
Page 1



NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

Project: N3FINIM





Project: N3FINTRN

NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

Page 2

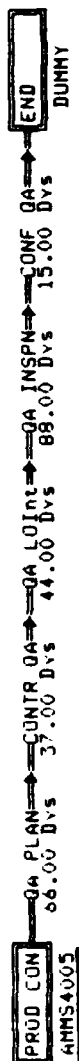
ENL TRNG=>DEL TRNG=>DSGN CRS=>GOVT REL=>TRN LIT=>TRN DIST=>INP TRNG=>RV COURSE=>UP MOS C=>SCHED CR=>CONT. 01=>  
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NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

Project: NISUAL





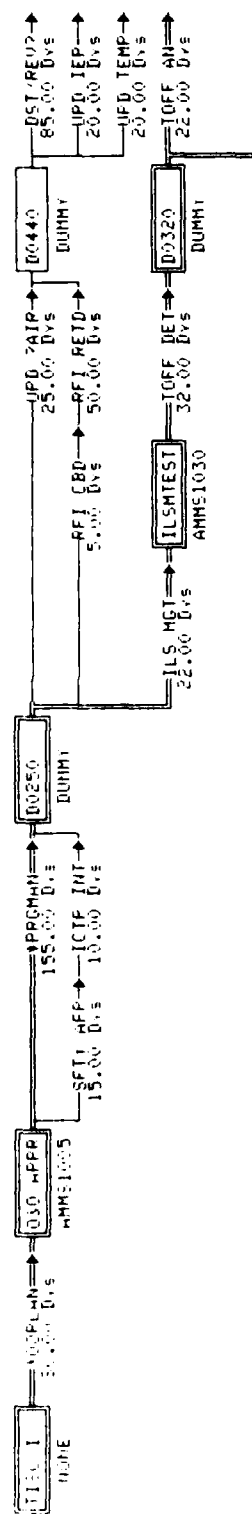
ASAP PHASE I  
TECHNOLOGY BASE ACTIVITIES

# TECHNOLOGY BASE ACTIVITIES PHASE OF THE WCAP MODEL

15-May-1997

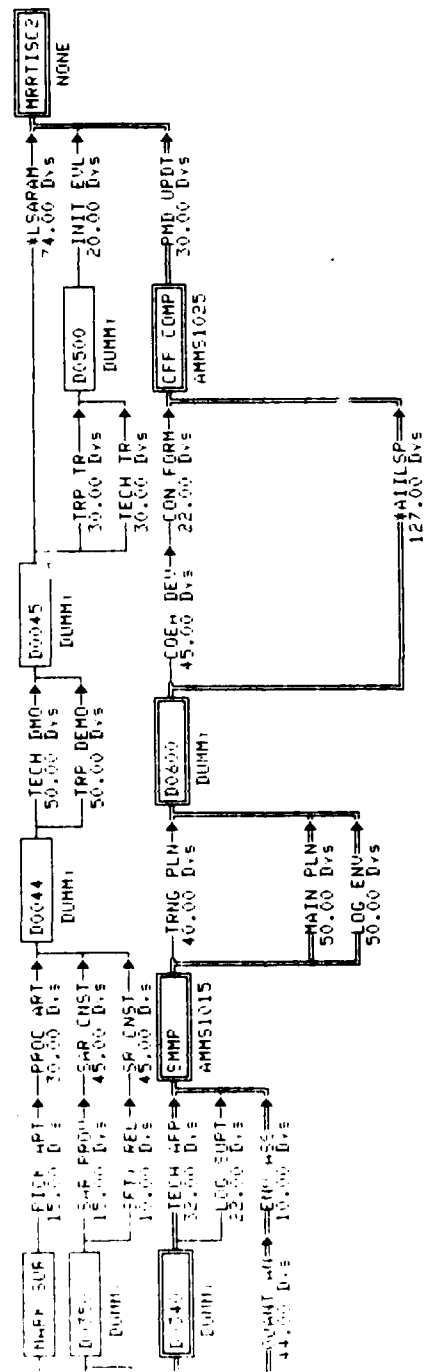
PROJECT WCAP1

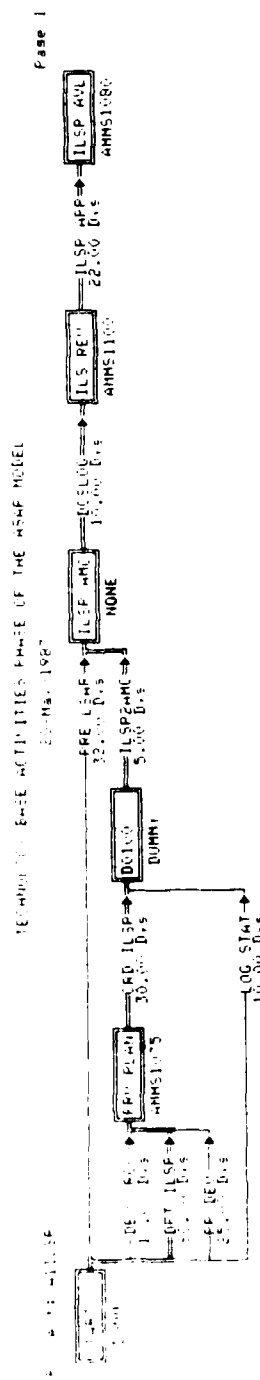
Page 1



# TECHNOLOGY BASE ACTIVITIES PHASE OF THE HASP MODEL

19-M3-1995



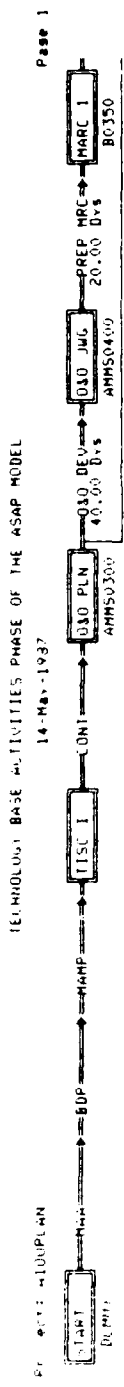


TECHNOLOGY: BASE ACTIVITIES OF THE ASAP MODEL

12-May-1987

PROJECT: AILSARAH





END DUMMY

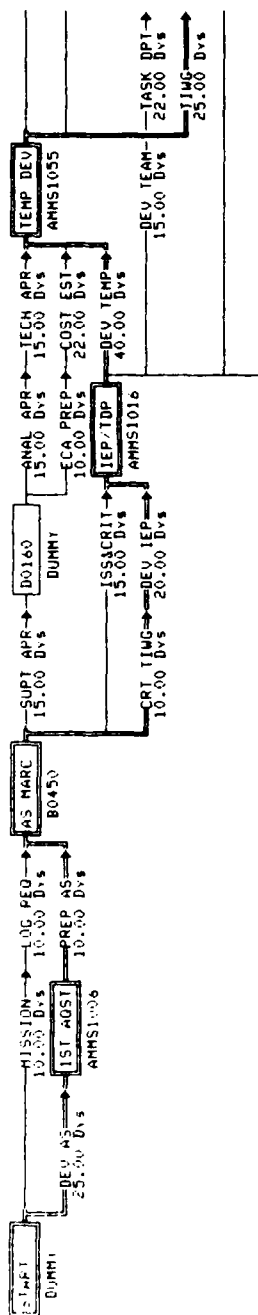
Page 2

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# TECHNOLOGY BASE ACTIVITIES PHASE OF THE ASAP MODEL

15-Nov-1987

Page 1

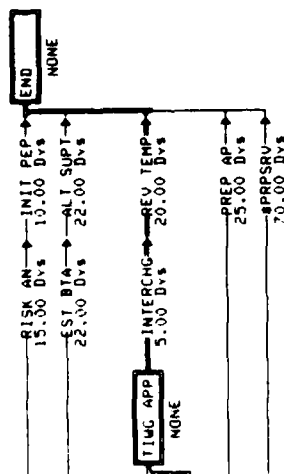




TECHNOLOGY BASE ACTIVITIES PHASE OF THE ASAP MODEL  
15-May-1987

Page 2

PROJECT ALPHANAM

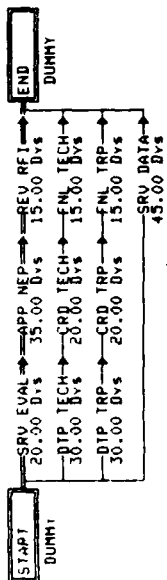


PROOF OF PRINCIPLE PHASE FOR ASAP

11-May-1987

Project: AIPRPSRV

Page 1



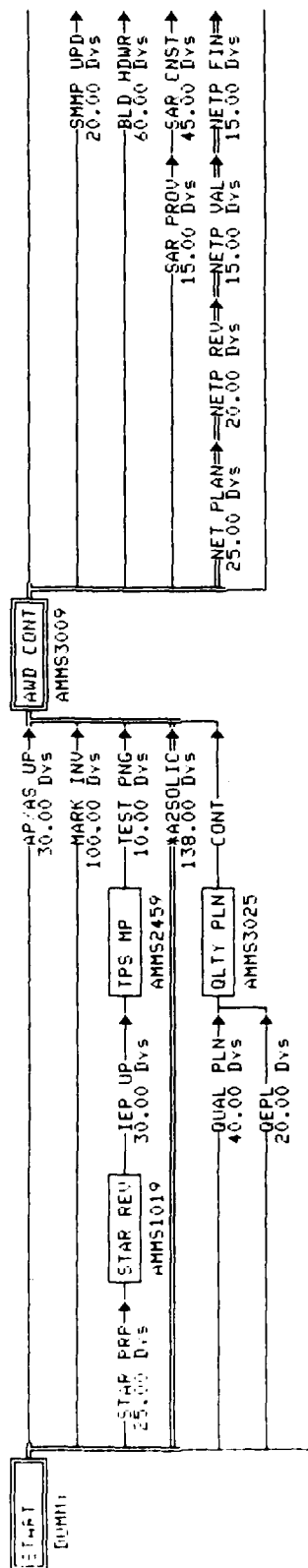
ASAP PHASE II  
PROOF OF PRINCIPLE

# PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

Page 1

20-May-1987

PROJECT: ASHF2

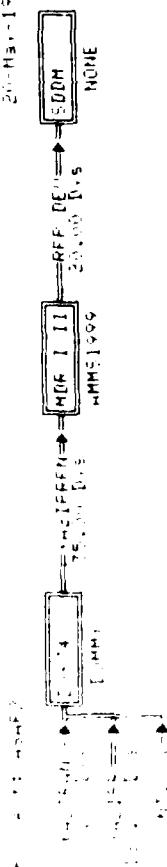




# PRINCIPLE PHASE OF THE HSWF MODEL

20-Mar-1987

Page 3

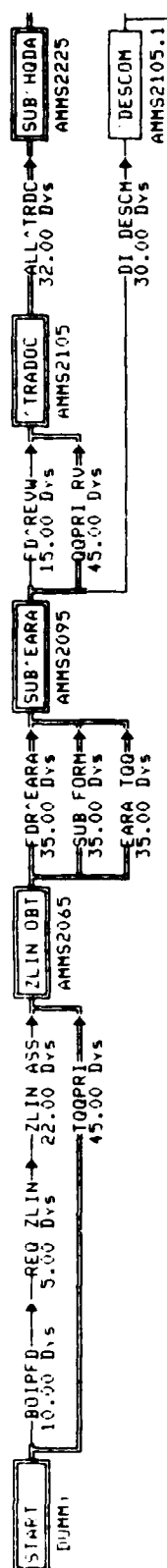


# PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

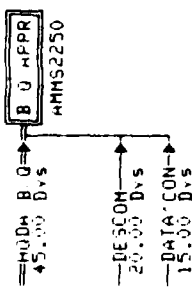
Project: A2B01P

14-May-1987

Page 1



Project: A280IP



PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

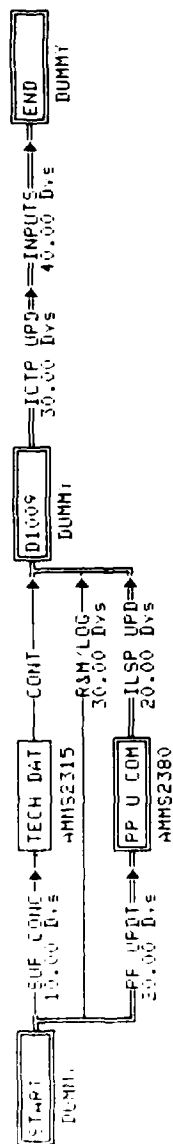
14-May-1987



# PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

20-May-1987

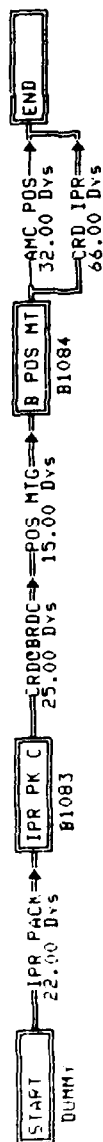
Project: W21E



PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

14-May-1987

Project: M2IPR



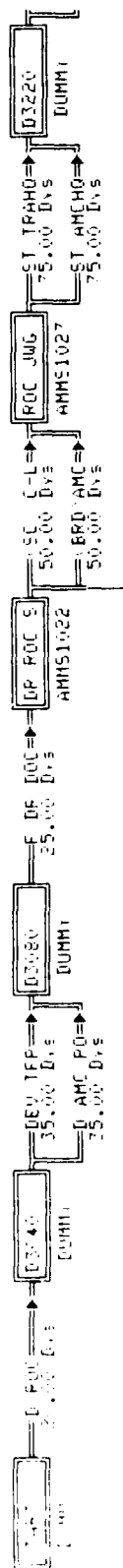
TECHNOLOGY BASE ACTIVITIES PHASE OF THE ASAP MODEL

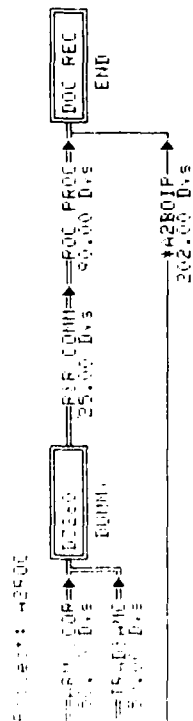
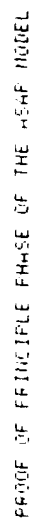
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Project: W2IPFN



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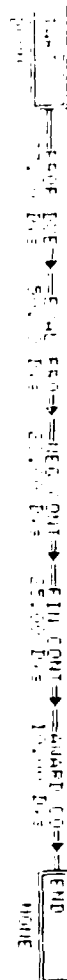




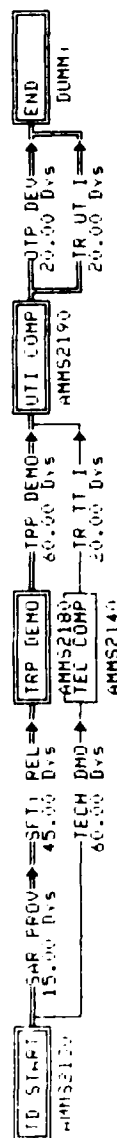
# REPORT OF REPAIRABLE STATE OF THE REPAIRABLE

2000-10-01

Page 1



TECHNOLOGY BASE ACTIVITIES PHASE OF THE USAF MODEL  
15-Mar-1997

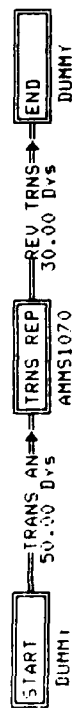


Project: A2TRANS

PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

14-May-1987

Page 1



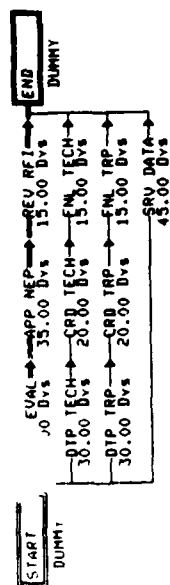


PROOF OF PRINCIPLE PHASE FOR ASAP

11-Nov-1987

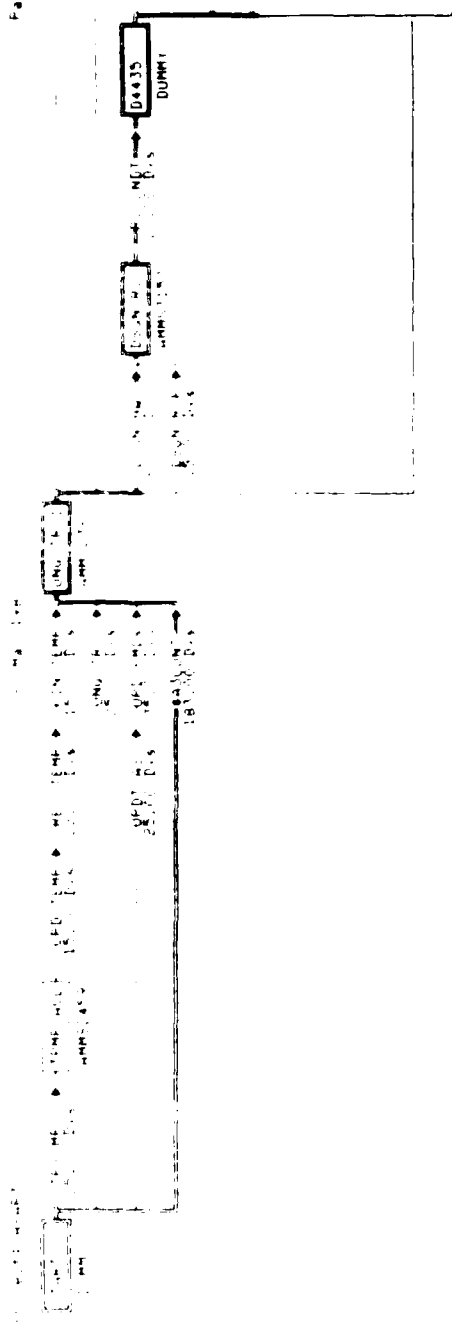
Page 1

PRECEDENCE



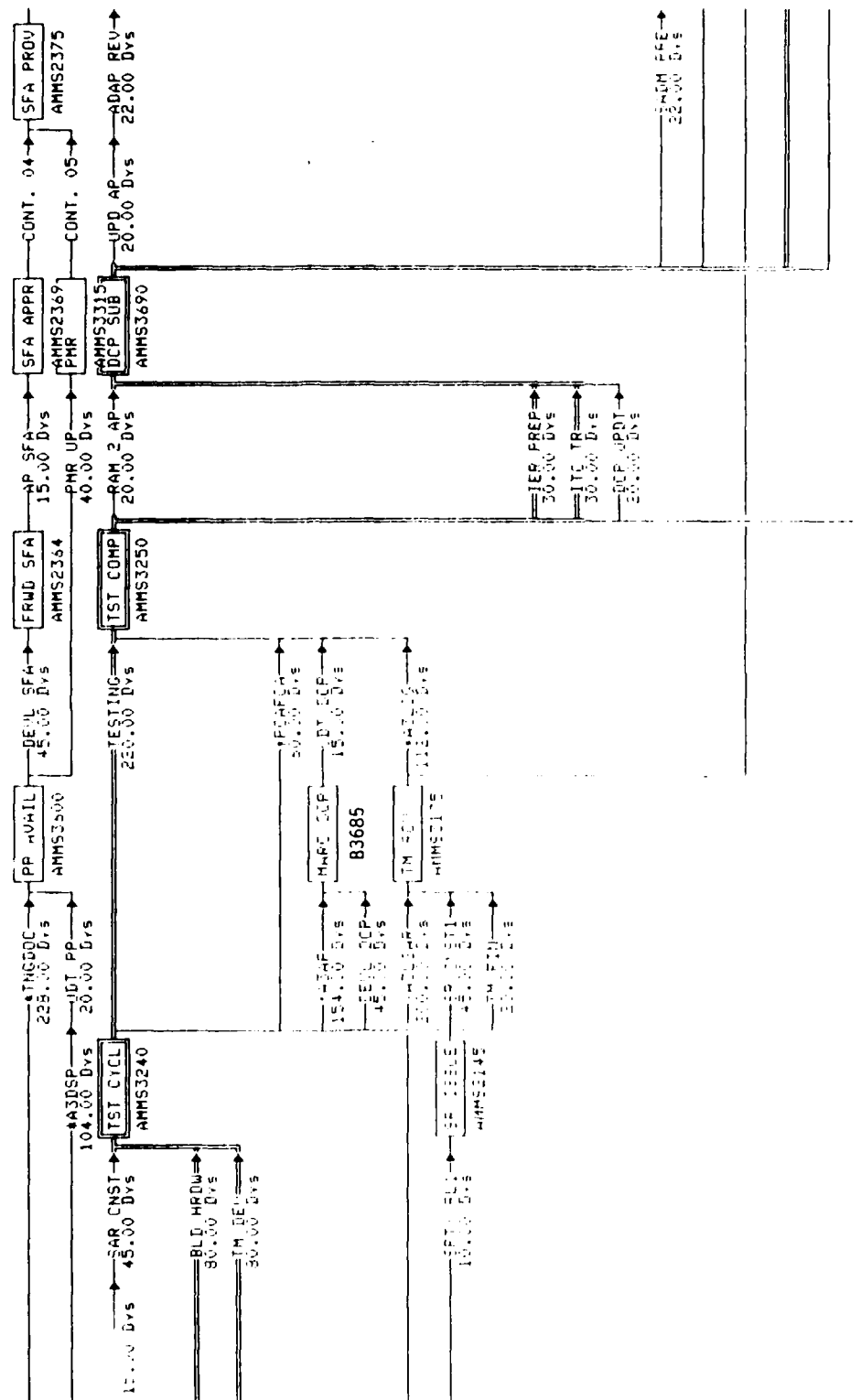
ASAP PHASE III  
DEVELOPMENT/PRODUCTION PROVE OUT

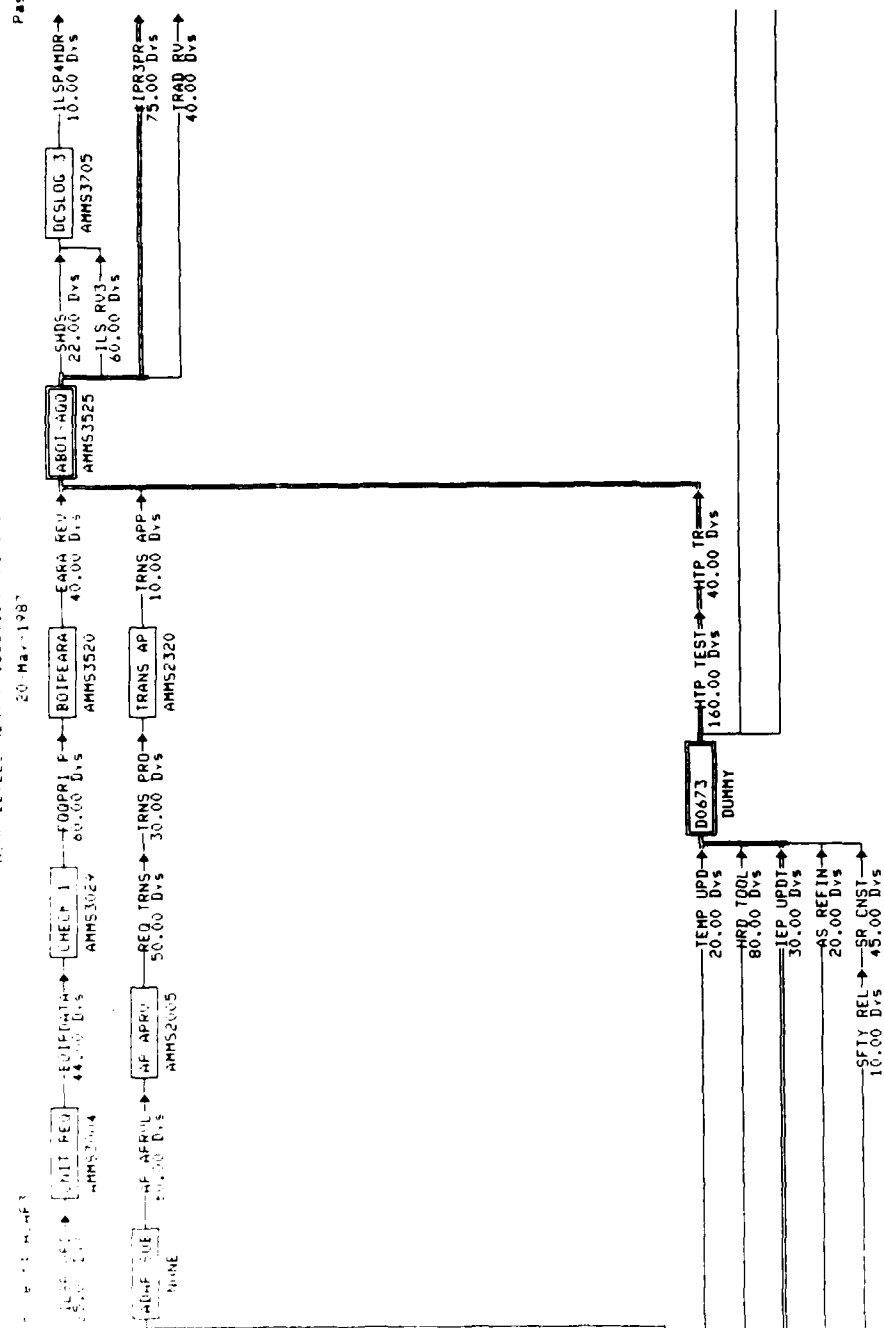
WATER OF THE UNITED STATES OF AMERICA

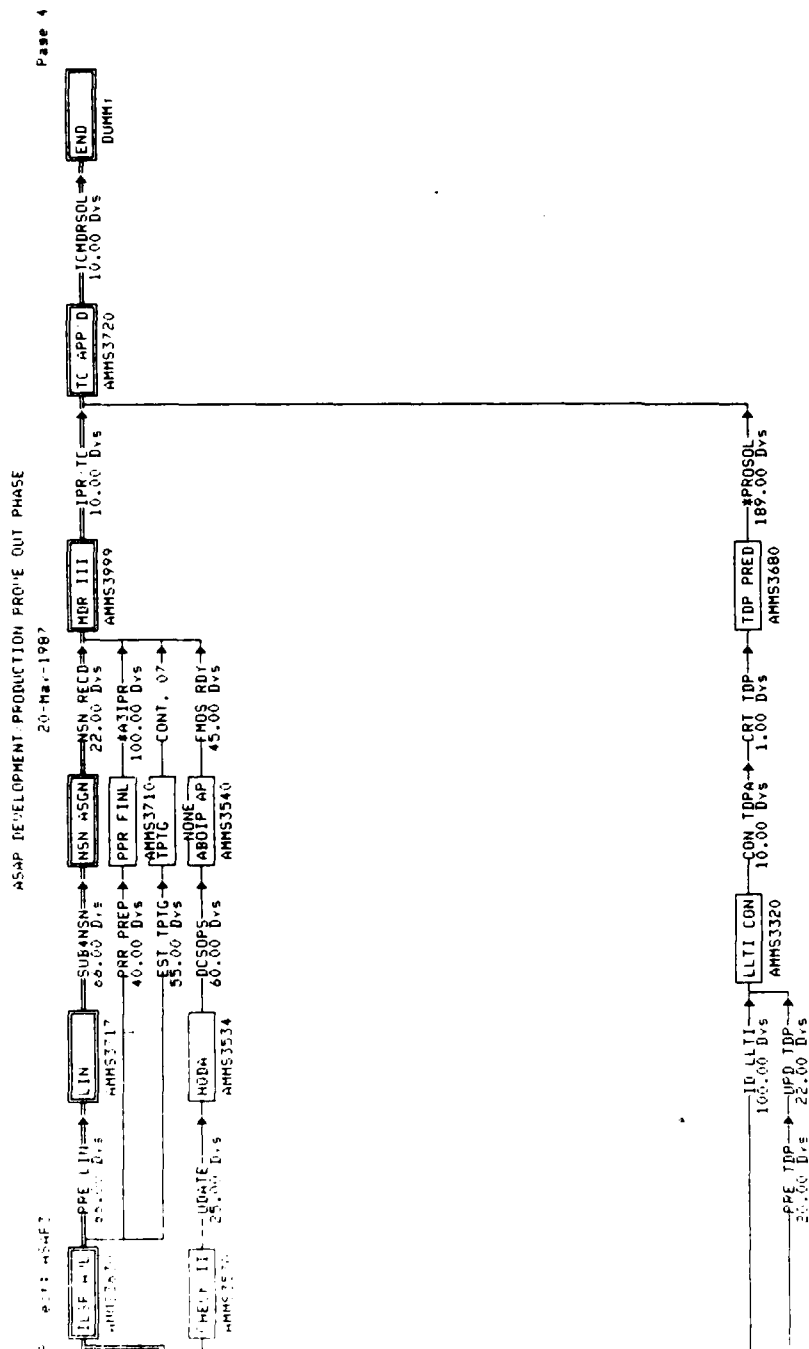


## ASAP DEVELOPMENT: PRODUCTION PROVE OUT PHASE

Project: ASAP3



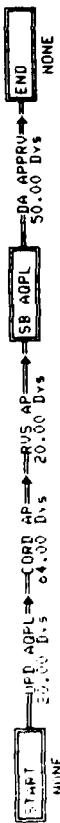




ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

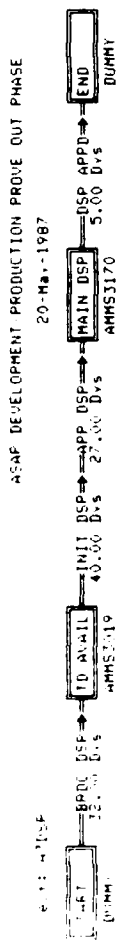
20-Nov-1987

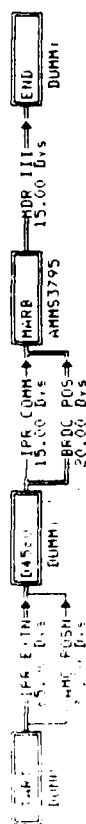
Project: AIMP

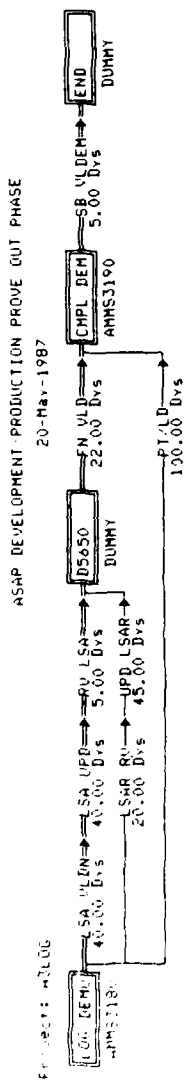








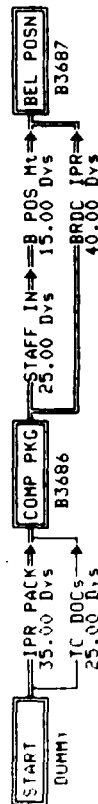


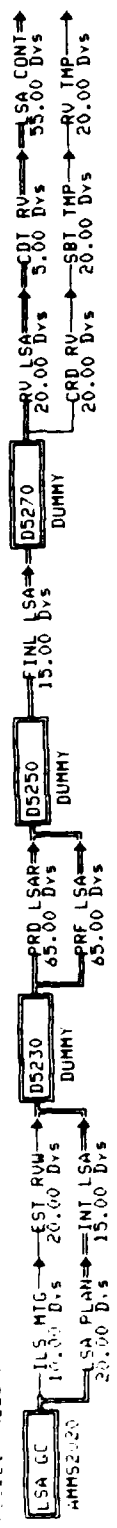


# ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

19-May-1987

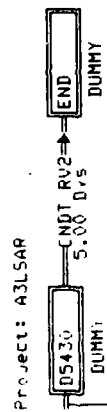
Project: A31PR3PR





ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

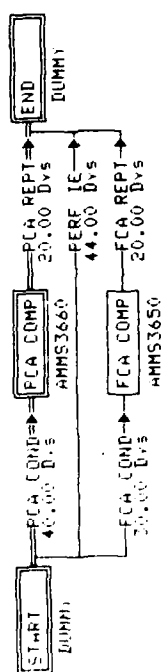
20-May-1987



ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

20-May-1987

Project: A2FC4FCA



ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

19-May-1987

Project: A3PROSOL

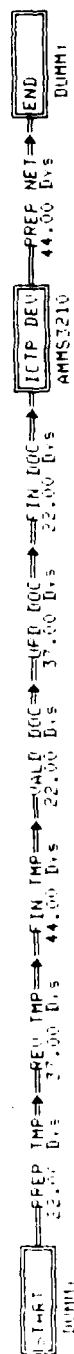




ASAP DEVELOPMENT PRODUCTION FROM QUT PHASE

19-MAY-1987

PROJECT WITHING

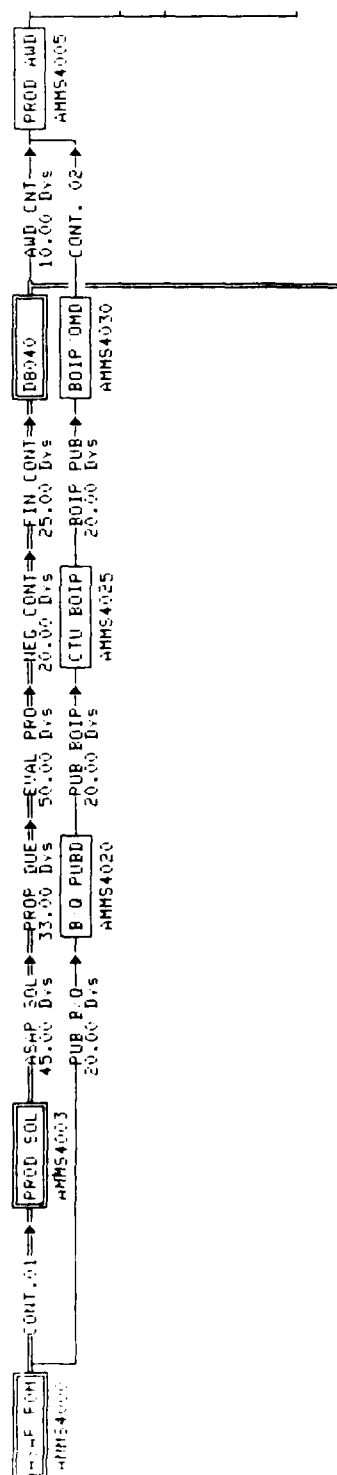


ASAP PHASE IV  
PRODUCTION AND DEPLOYMENT

# MSRP PRODUCTION AND DEPLOYMENT PHASE

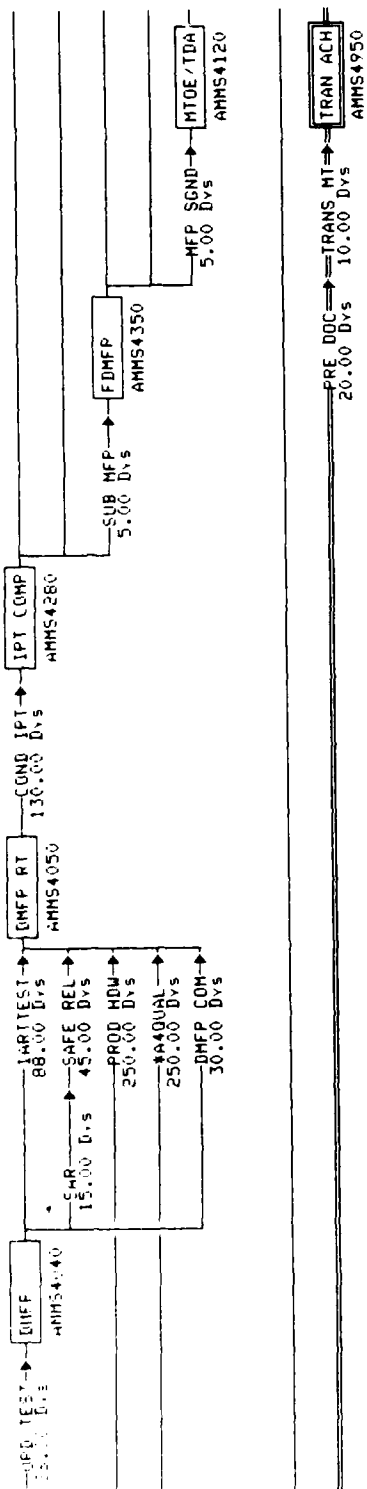
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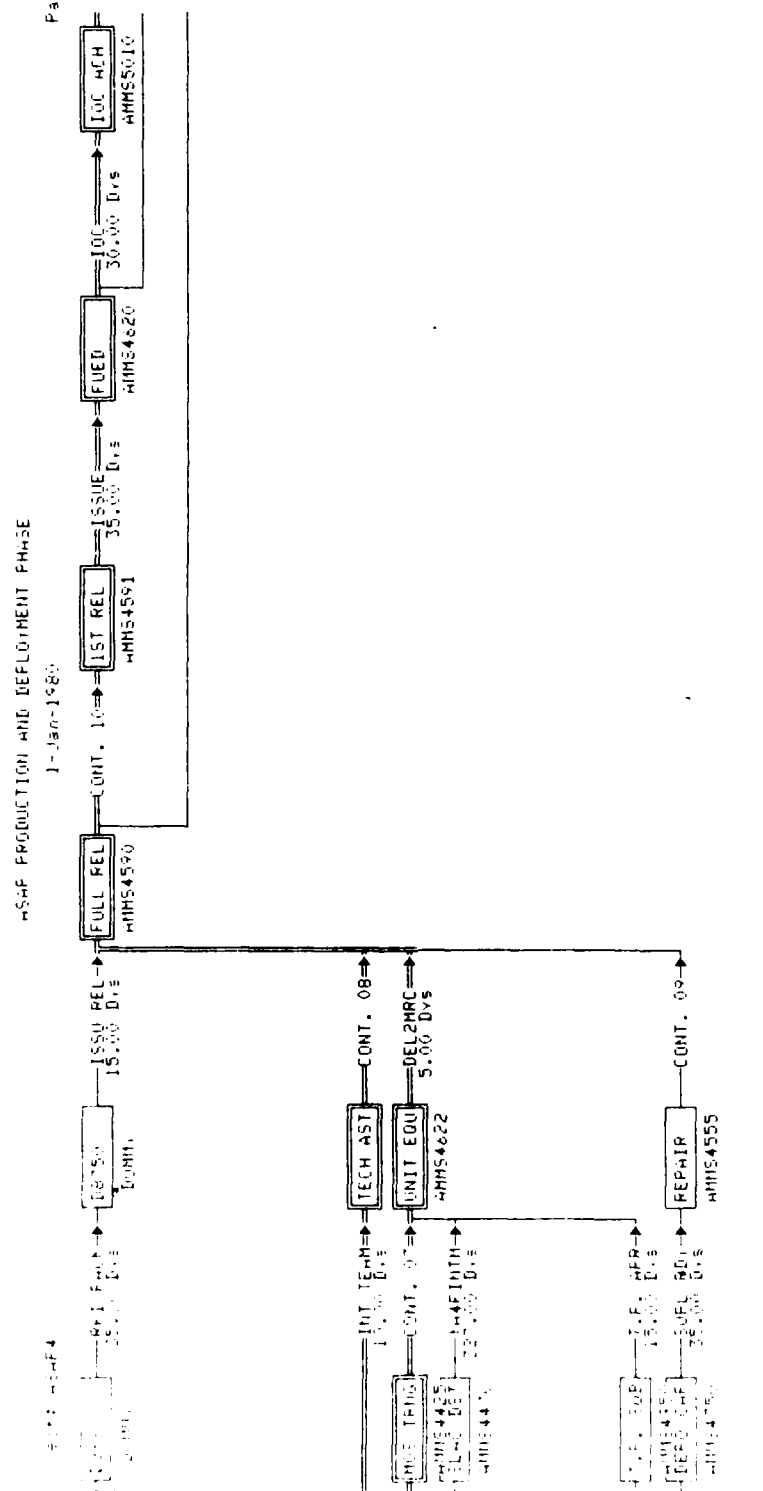


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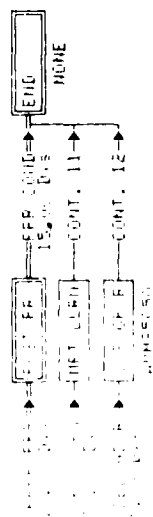




# ASAF PRODUCTION AND DEPLOYMENT PHASE 1-150-1180

Page 5

1-150-1180

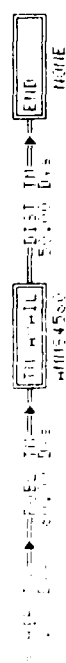






# REF PRODUCTION AND DEPLETION PHASE

1- Jan-1960








Page 3

### PHASE PRODUCTION AND DEPLOYMENT PHASE

1-Jan-1930

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# MSRP PRODUCTION AND DEPLOYMENT PHASE

1-Jan-1980

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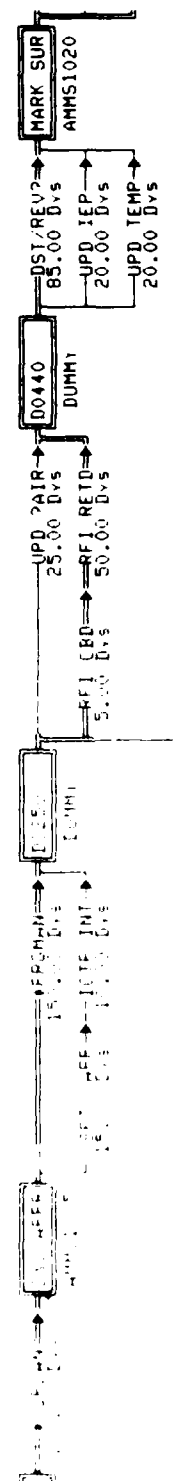
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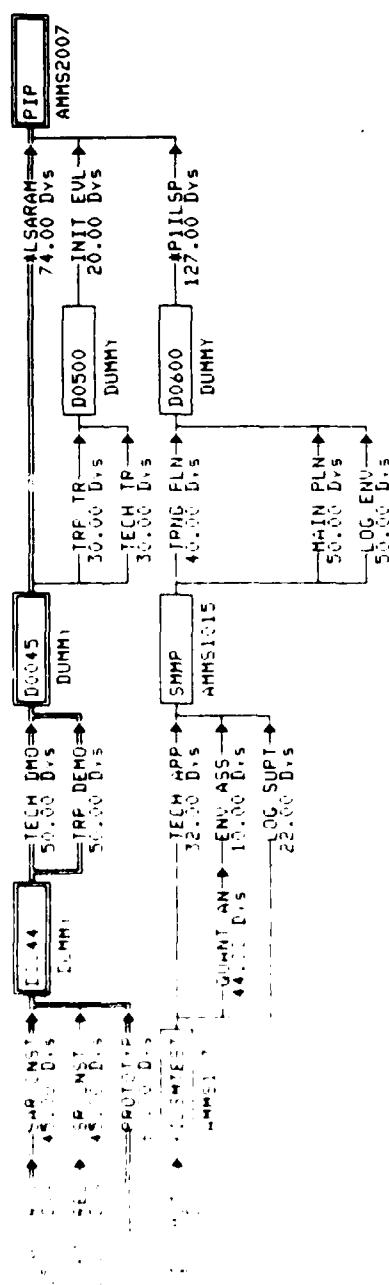
PHASE I  
PIP TEMPLATE

# PRODUCT IMPROVEMENT PROGRAM PHASE I

Page 1



# PRODUCT IMPROVEMENT PROGRAM PHASE I

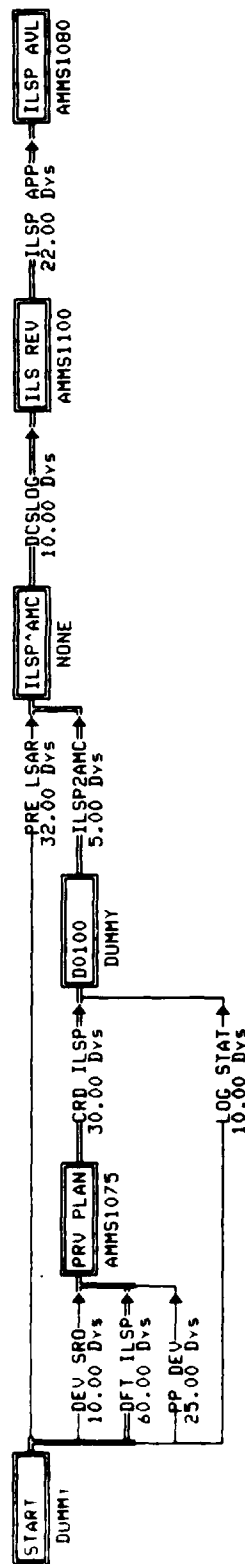




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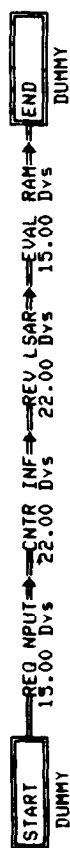
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Project: PIILSP



PRODUCT IMPROVEMENT PROGRAM PHASE I

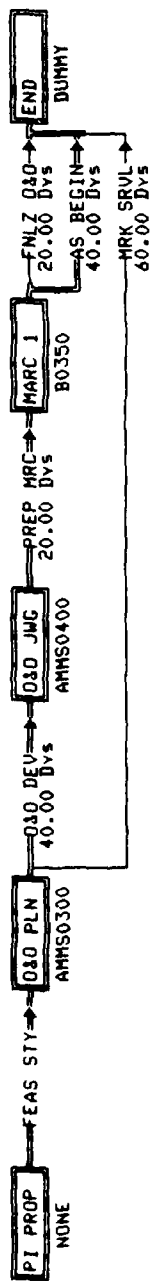
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PRODUCT IMPROVEMENT PROGRAM PHASE I

Project: P100PLAN

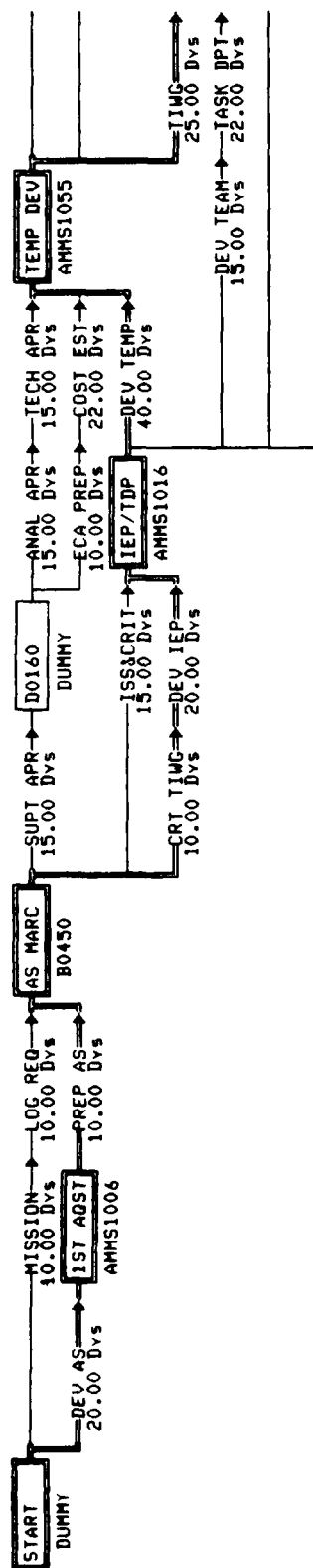
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# PRODUCT IMPROVEMENT PROGRAM PHASE I

Project: PIPRGHAM

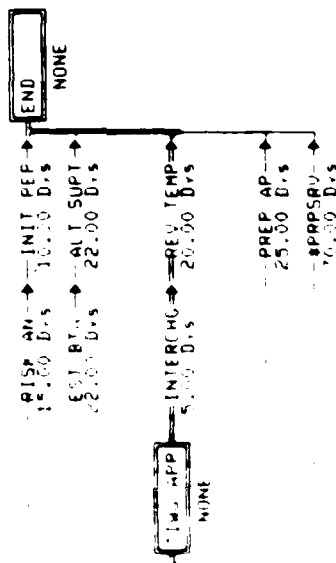
Page 1



# PRODUCT IMPROVEMENT PROGRAM PHASE I

Page 2

PIPPROGAM





PHASE II  
PIP TEMPLATE

Project: PIPE

START  
DUMM

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2.00E [1.5





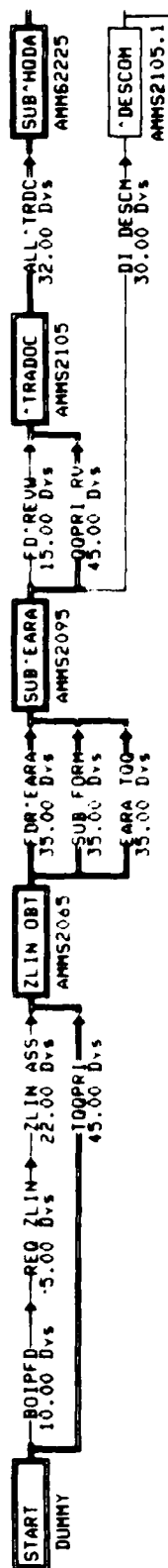
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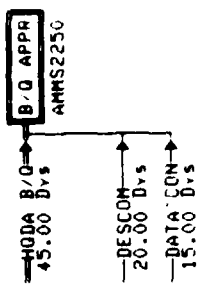
PRODUCT IMPROVEMENT PROGRAM PHASE II

Project: P280IP

Page 1



Project: P2B01P



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graph TD
    START[START] --- DUMPS[DUMPS]
    DUMPS --> J1(( ))
    J1 --> SUPPLY[SUPPLY]
    J1 --> E[E]
    E --> K[K]
    K --> J2(( ))
    J2 --> OUT_BOX[ ]

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Project: P21PR



Project: P21PRFN

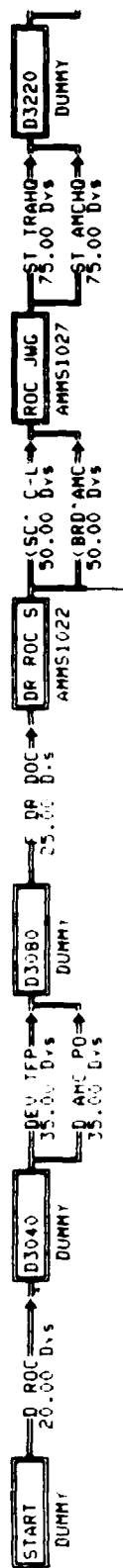
Project: P21PRFN



PRODUCT IMPROVEMENT PROGRAM PHASE II

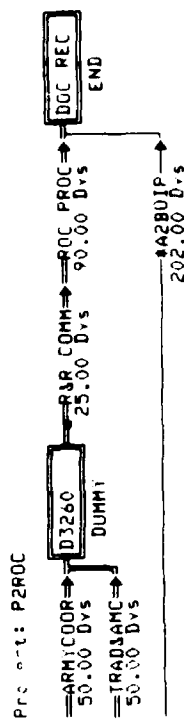
Project: P2ROC

Page 1





PRODUCT IMPROVEMENT PROGRAM PHASE II



Project: P2SOLIC

PRD 11 (MERGEMENT PROGRAM PHASE II)

Page 1

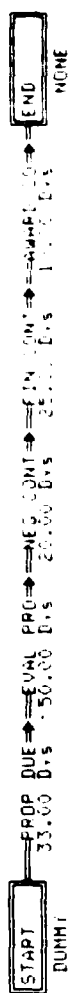


FIG. 1: P2TEST



Page 1

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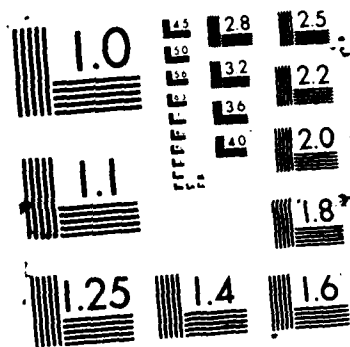
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F/G 15/5

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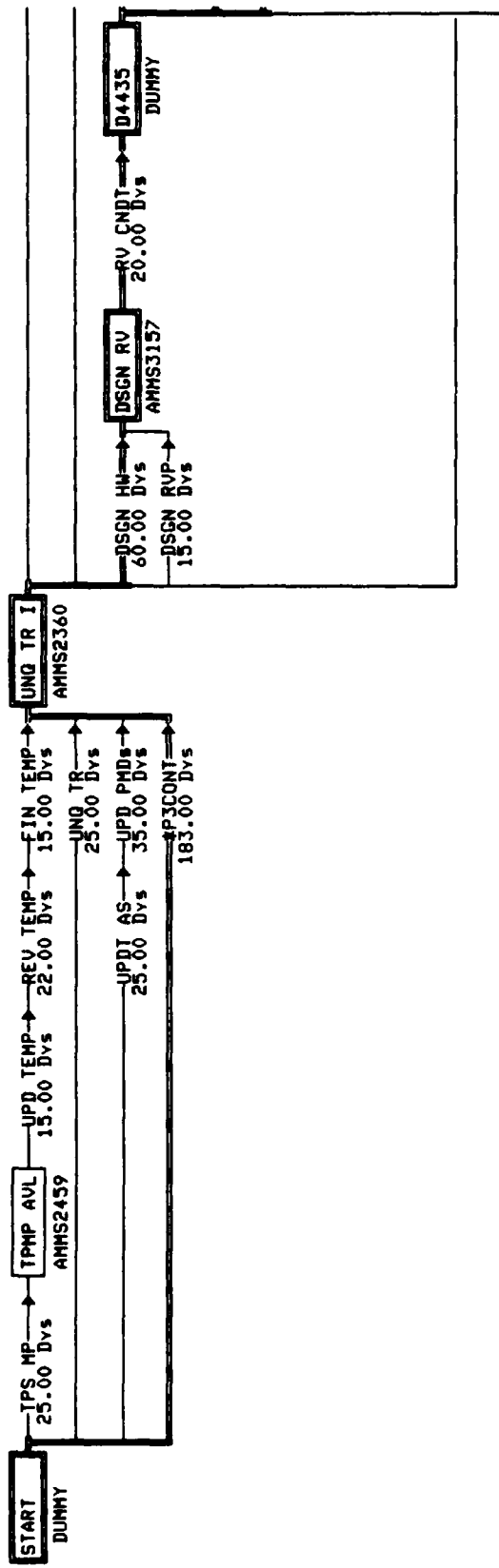


PHASE III  
PIP TEMPLATE

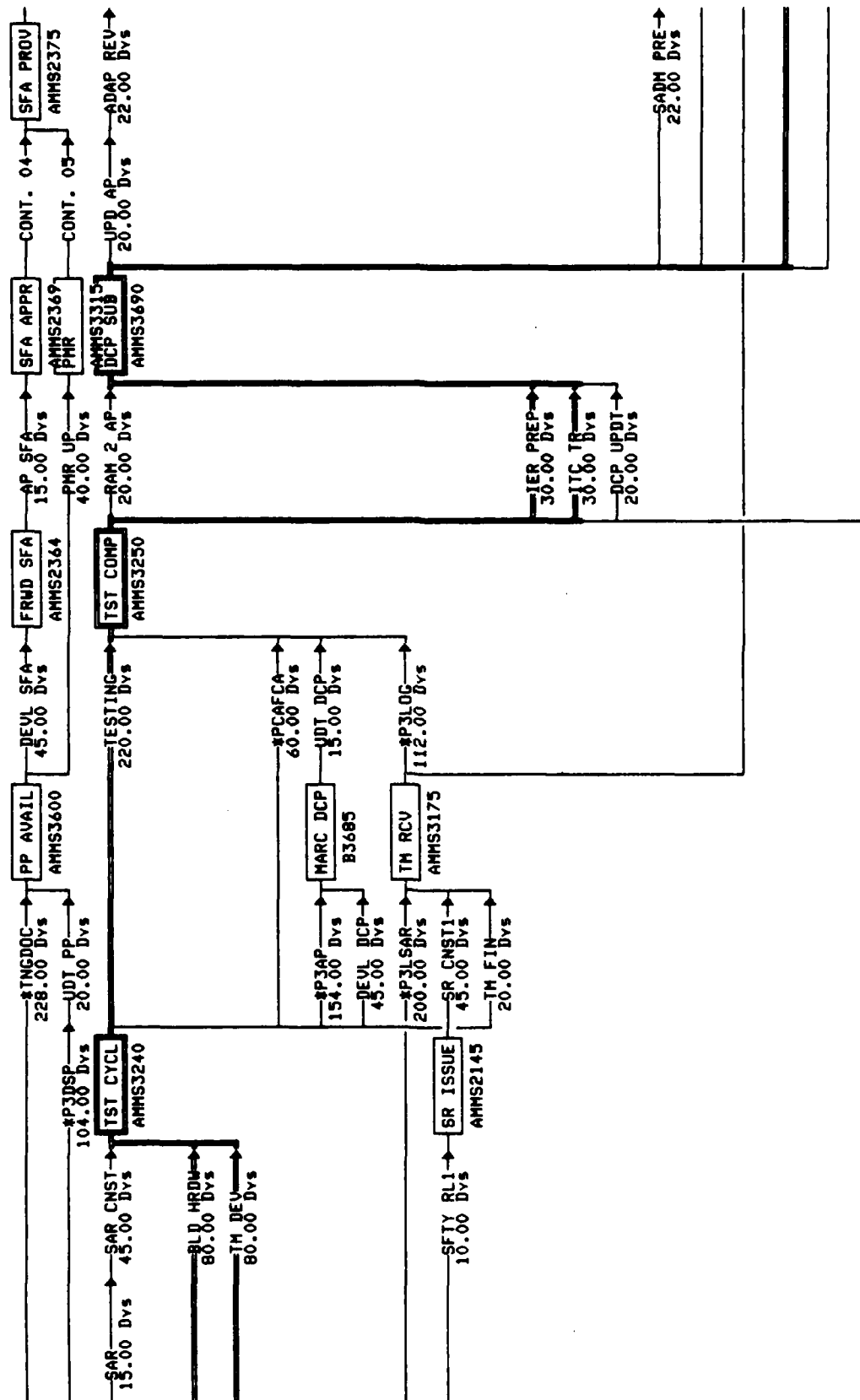
# PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: PIP3

Page 1



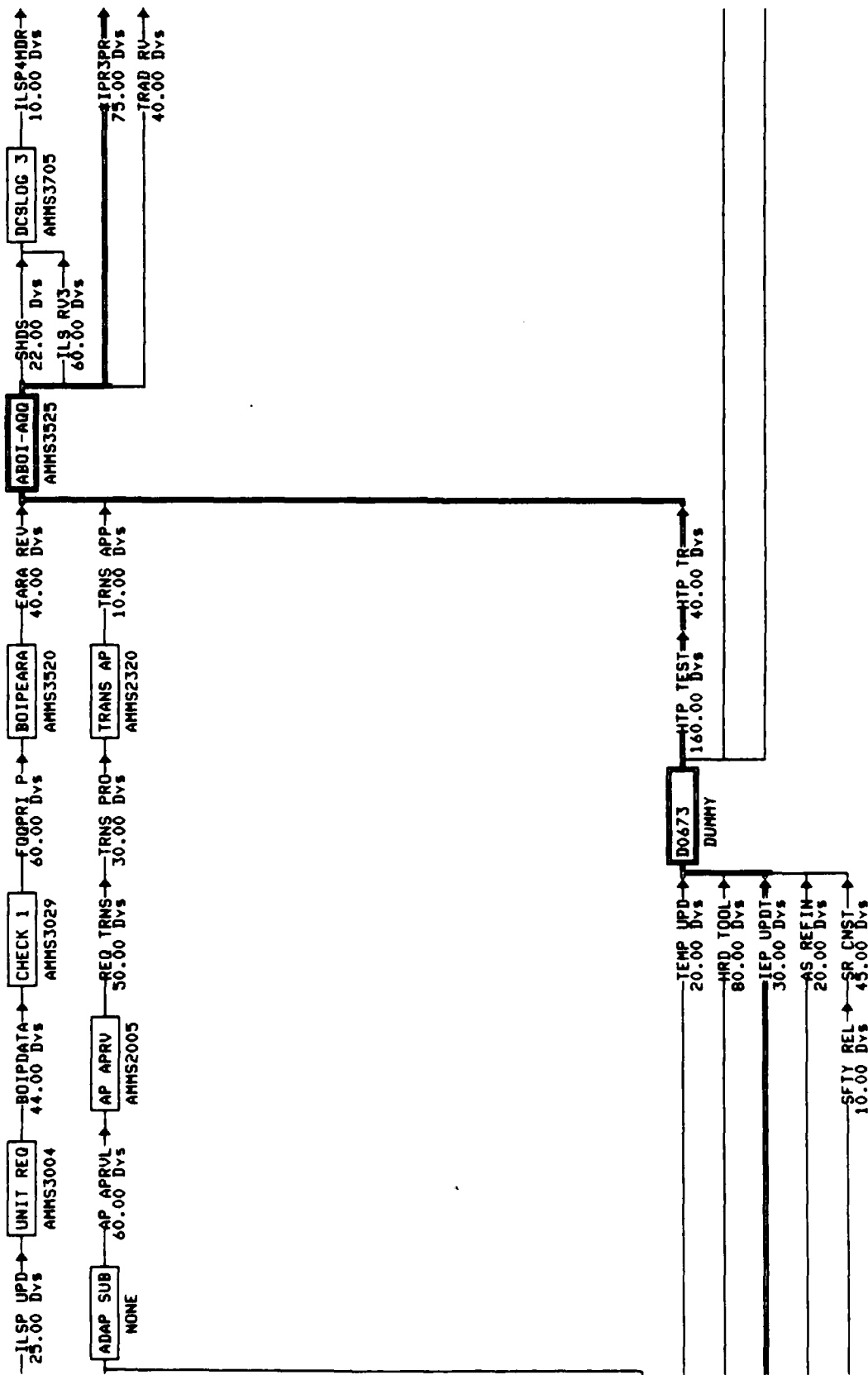




Project: PIP3

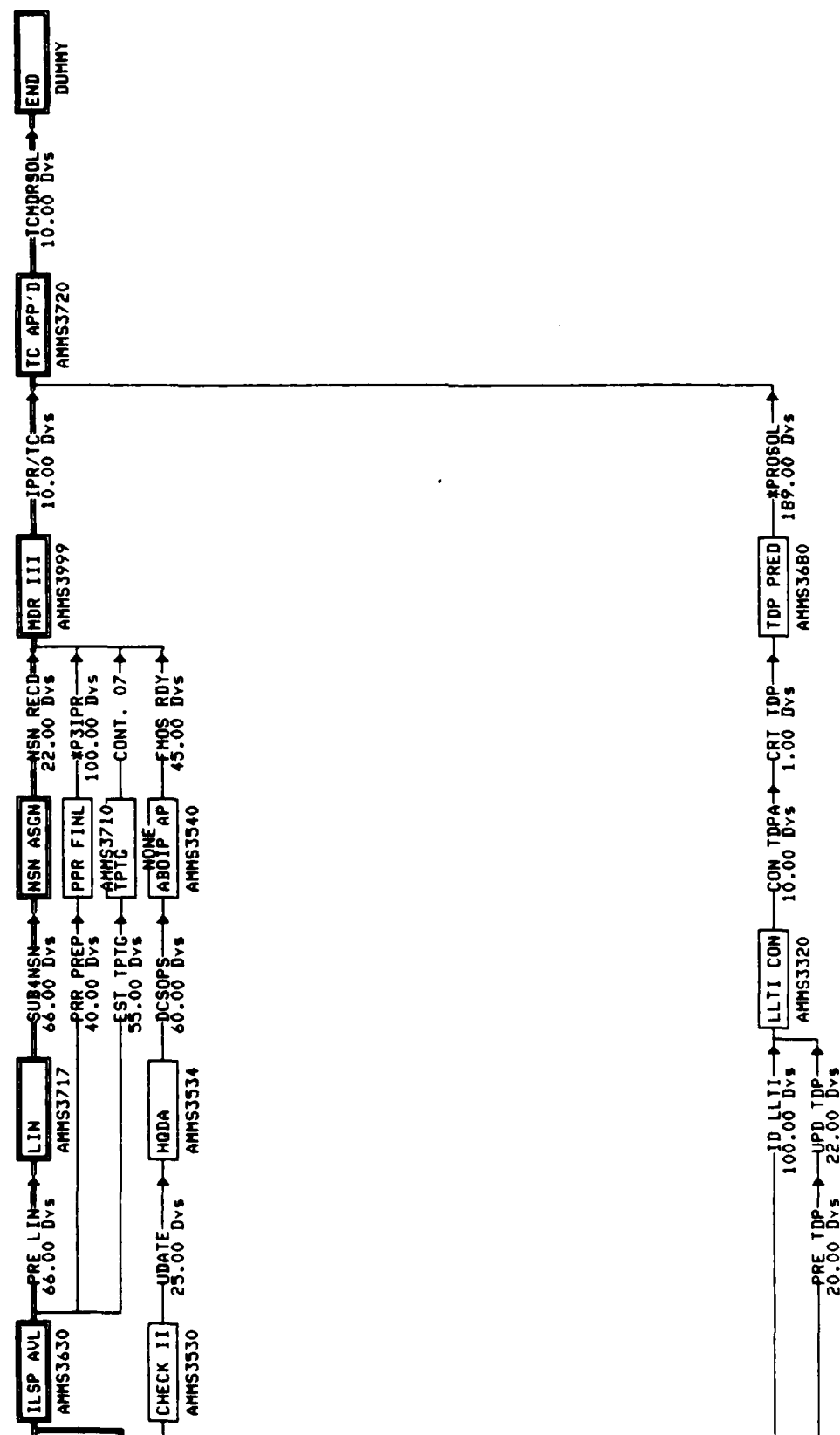
PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 3



### PRODUCT IMPROVEMENT PROGRAM PHASE III

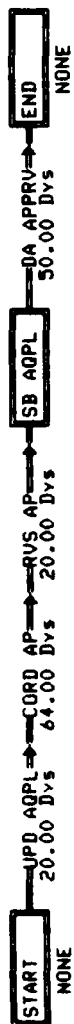
Page 4



PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1

Project: P3AP



Project: PJCONT

PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1



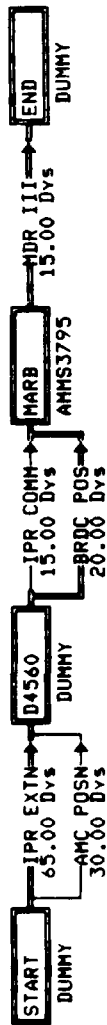
PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: P3DSP



# PRODUCT IMPROVEMENT PROGRAM PHASE III

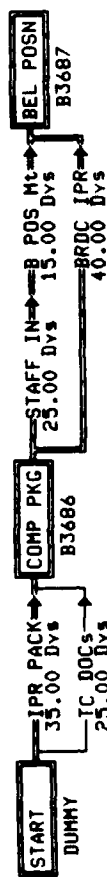
Project: PJIPR



Page 1

PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: P31PR3PR

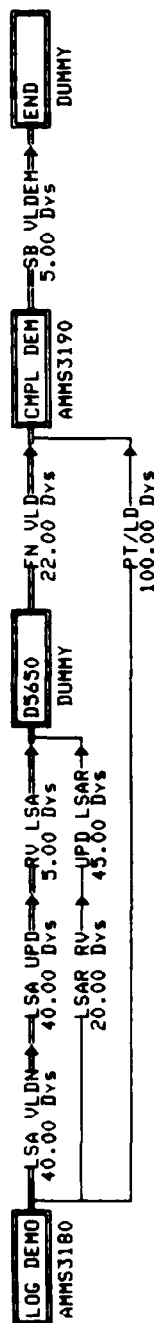




# PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: P3LOG

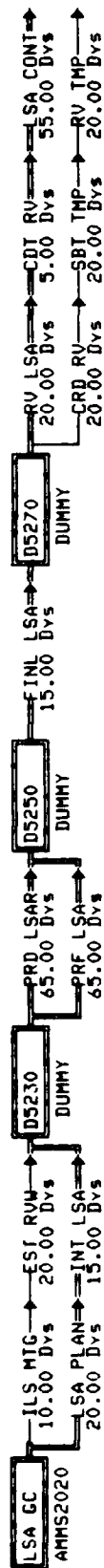
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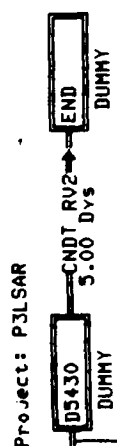
Project: PJLSAR

PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1



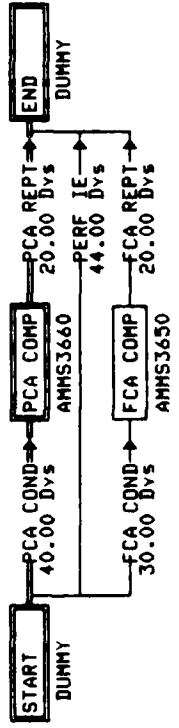
### PRODUCT IMPROVEMENT PROGRAM PHASE III



Project: P3PCAFA

PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1



PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: PJPROSOL



PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: P3TNGDOC

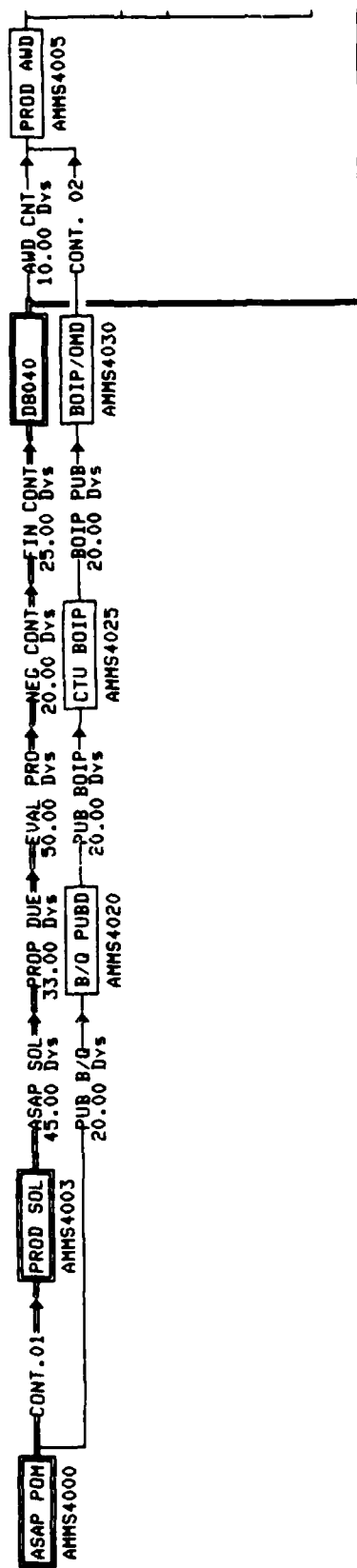


PHASE IV  
PIP TEMPLATE

# PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 1

Project: PIP4

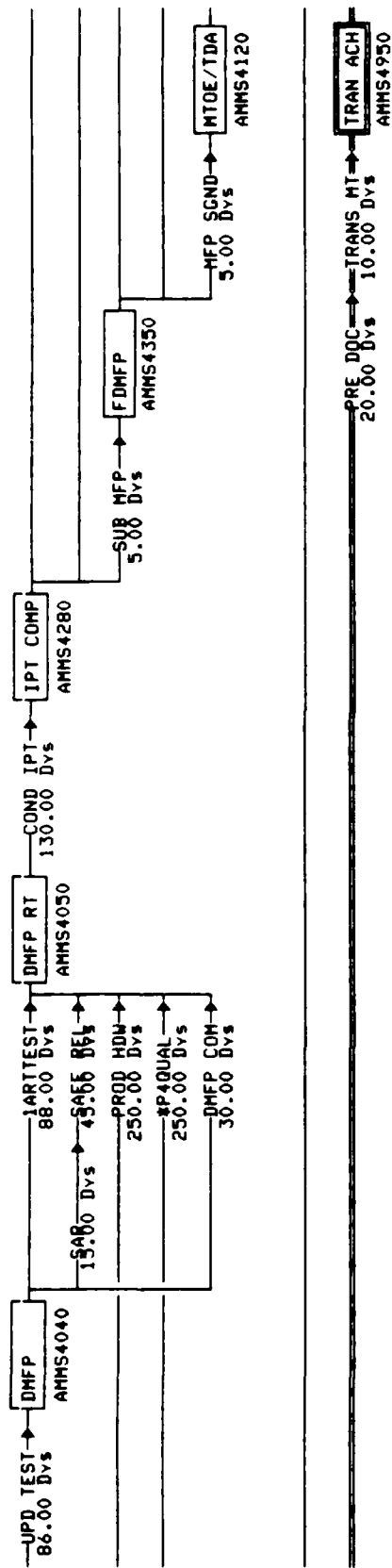




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Project: PIP4

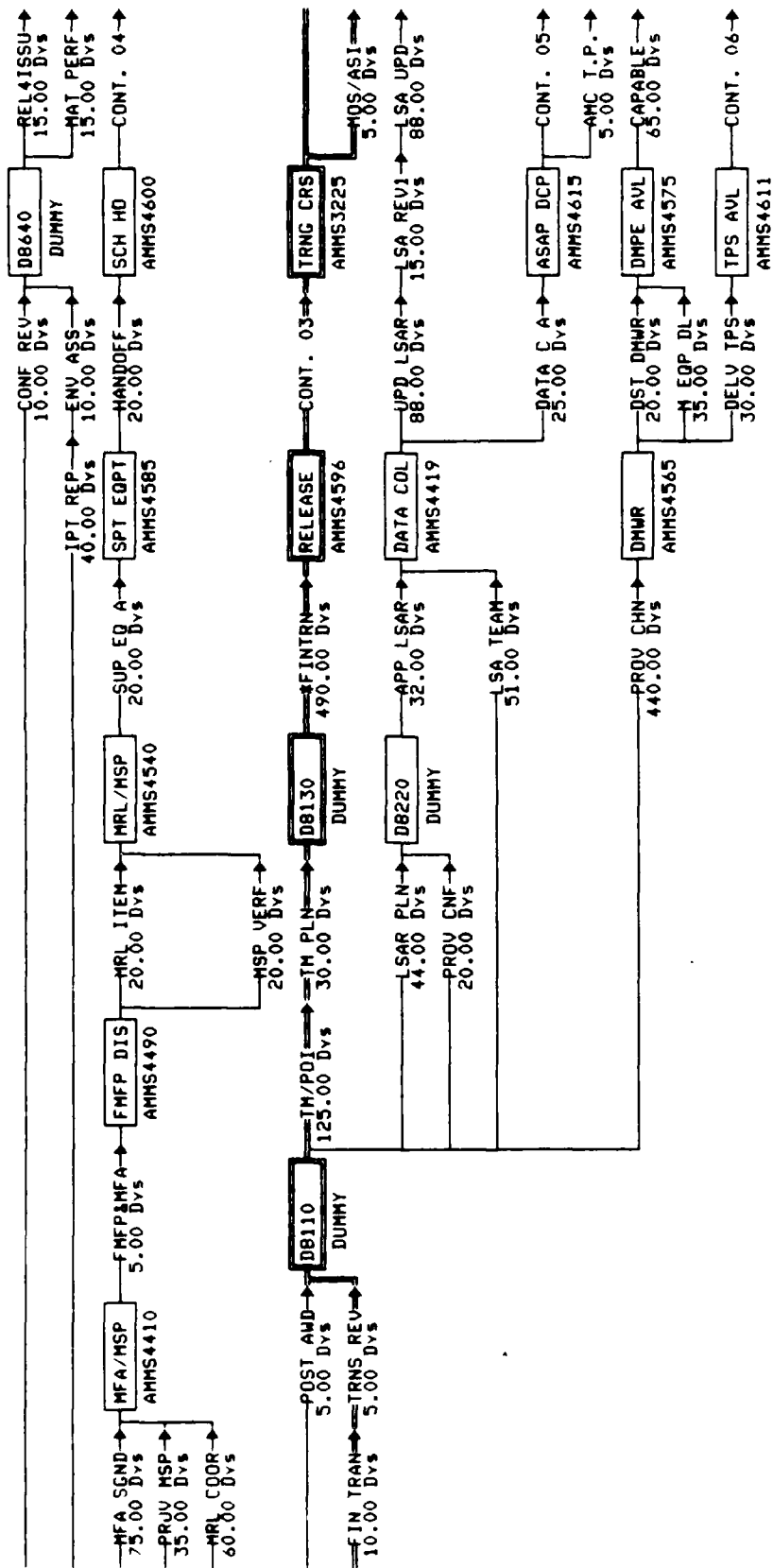
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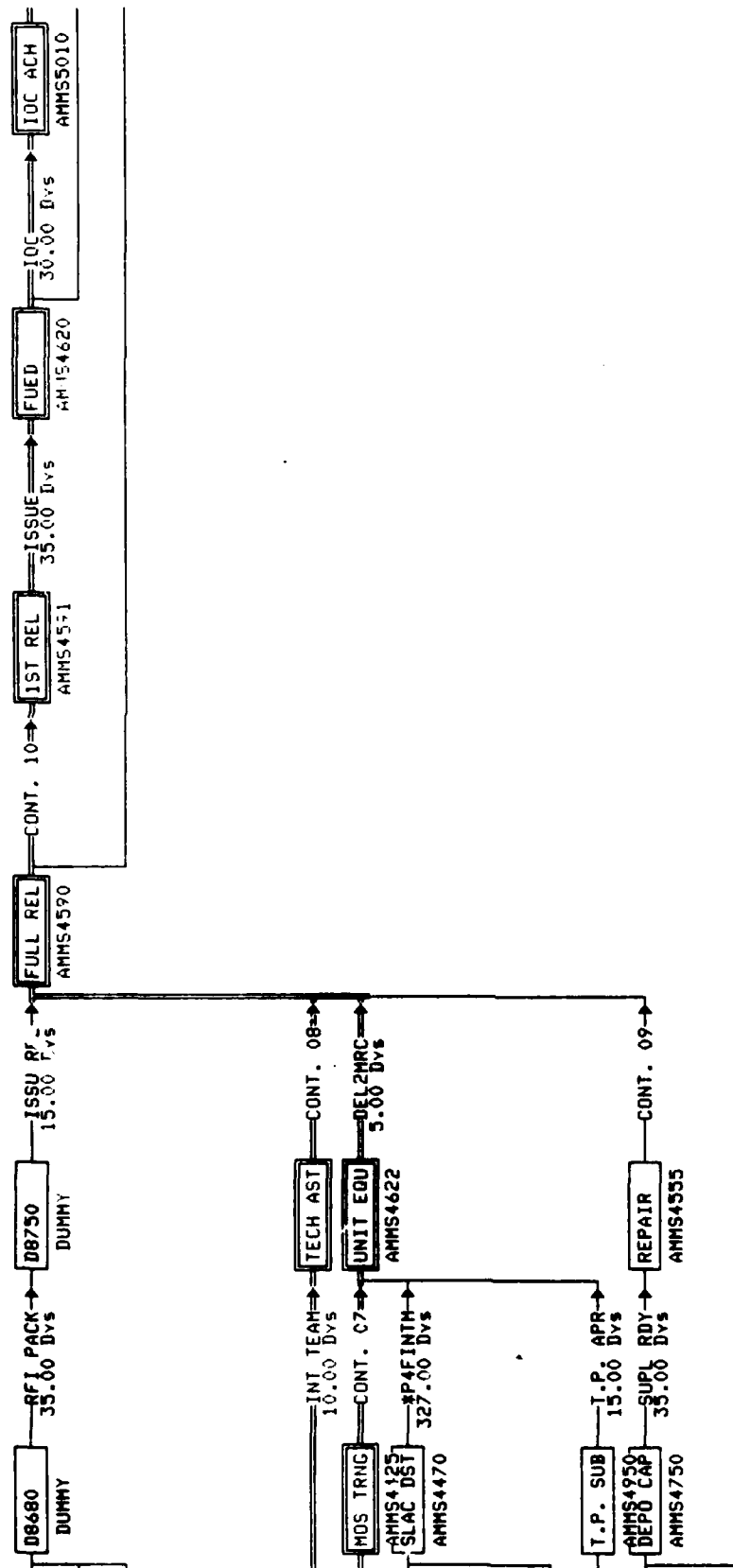
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Project: PIP4

Page 3



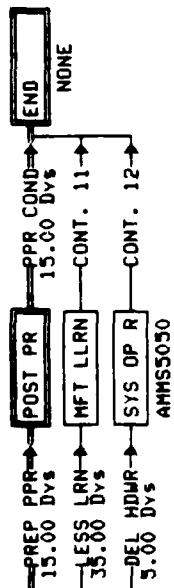
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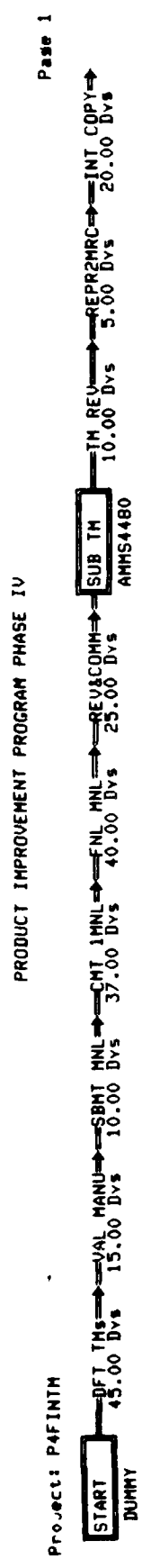


# PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 5

Project: PIP4





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PRODUCT IMPROVEMENT PROGRAM PHASE IV

Project: P4FINTH

Page 2



PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 1

Project: P4FINTRN



PRODUCT IMPROVEMENT PROGRAM PHASE IV

Project: P4FINTRN





Project: P4FINTRN

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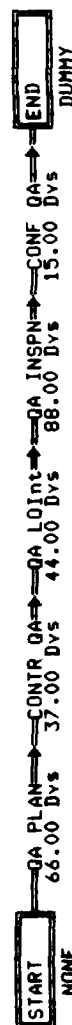
PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 3

Project: P40UAL

PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 1



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